



1961263 - R8 SEMS



DATE: DECEMBER 5, 1988  
TO: MINVEN GOLD CORPORATION - LAKEWOOD, COLORADO  
FOR: JAMES A. ANDERSON  
FROM: REX L. OUTZEN  
SUBJECT: MONTHLY REPORT - GILT EDGE MINE - NOVEMBER, 1988

#### SUMMARY

A total of 1938.09 ounces of gold and 2020.92 ounces of silver were produced in November. Year to date production at the end of the month totaled 5061.54 ounces of gold and 6324.43 ounces of silver.

The state DWR approved the leach pad testing program and leach operations commenced once again on a limited basis November 16, 1988. Cell #5 is presently undergoing repairs and cell #6 is undergoing the neutralization and detoxification process. As each cell is neutralized and unloaded repairs will be performed before each cell is reloaded with fresh ore. Weather conditions have a significant impact on the speed at which the repairs can be performed.

#### MINING

Mining operations remained shut down during November except for the mining of 1434 tons of waste which was used in drill pad construction. Mining operations will remain down until late February. The mine contractor continues to be extremely cooperative. Although he has significantly reduced his work force he continues to maintain enough staff to assist in leach pad repairs and loading and unloading operations. Mine statistics for the month of November are attached.

#### CRUSHING

Due to the leach pad situation the crushing plant remained down the entire month of November. No ore was crushed during the month. The downtime was well utilized by maintenance personnel to perform numerous maintenance and repairs and correct problem areas that were identified during operations. Once the repair work is complete, the crusher will be in top condition so that crushing operations can be performed with minimal interruption.

## LEACHING

Leaching operations remained down the first half of November. During this time a plan to identify the exact nature of the leak was prepared and submitted to the state DWNR. The DWNR approved the plan and leaching operations commenced once again on a limited basis November 16, 1988.

Once leaching operations were started, Brohm personnel along with the assistance of Mark Smith (Vector Engineering), conducted numerous activities to identify the exact nature of the leakage. Piezometers were installed in the heaps to measure hydrostatic head, permeability tests were conducted on the ore, samples of the leach pad primary liner were obtained and tested, tracers and dyes were utilized to determine crossover, and accurate daily leakage on each individual cell was measured and recorded. From the information that was obtained, it appears that leach solution penetrates the upper layer of asphalt through voids at areas of cold joints in the asphalt. The solution then flows horizontally until it contacts a permeable area of the petromat liner. The solution can then penetrate the second layer of asphalt at the cold joints and enter the leak detection collection system.

With this information a plan to repair the leach pad was prepared and approved by the state DWNR. The plan includes thoroughly cleaning the leach pad surface and then applying a penetrating sealant (MC 250). Once the penetrant has cured a second seal coat of AC 5 will be applied which will seal the surface of the pad and hopefully eliminate all leakage. This repair is presently being made on cell #5 and should be completed early in December. Once complete, approval to reload the heap and test the effectiveness of the repair will have to be obtained from the DWNR. If the repair is very effective, similar repairs will be conducted on each cell of the leach pad as they are unloaded.

## PROCESSING

The process plant continued operations the entire month of November even though leaching operations were down half of the month. Problem areas with clarification and vacuum have been corrected and by the end of the month the plant was operating well. Production was limited due to the suspension of leaching operations but this time was utilized to complete refining of all precious metal precipitates and to process all refining slag. A total of 4612.7 ounces of dore' containing 1938.09 ounces of gold and 2020.92 ounces of silver were produced in November.

Plant statistics for the month of November are attached.

## STAFFING

There were no changes in personnel during the month of November.

### SAFETY

No accidents were reported during the month. One incident was reported when crusher helper (Stairs) received a bump on the head while using an electric drill performing crusher repairs. However, the incident was not serious.

### EXPLORATION

The Gilt Edge Expansion Project development drilling continued in November. During the month a total of 22 drill holes were completed for 18,210 feet. Again this month results continue to be encouraging, however, as holes are drilled farther away from known mineralization quantities of ore grade mineralization are decreasing. At the end of November a total of 147 drill holes had been completed for 139,150 feet of drilling. Assays and geology are being added to the sections as rapidly as they are received. Emphasis is now being placed on reserve estimation as the drilling program will be completed during the month of December.

The core drilling program continued in November. A total of 512.9 feet of core and 1177.5 feet of rotary drilling in 3 holes were completed. So far approximately 13.4 tons of core are available for testwork. It is anticipated that the core drilling program will be completed by Christmas. An updated drill hole map and assay summary are enclosed.

### EXPANSION PROJECT

The sulphide project as of December will be referred to as the Gilt Edge Expansion Project. Development of the Gilt Edge Expansion Project continued in December. Metallurgical testwork was conducted and results were encouraging. Recoveries of at least 75% can be obtained using direct cyanidation at a 100 mesh grind. Additional work is continuing to try and improve and optimize the flowsheet.

Engineering, procurement and construction management proposals were received from six different engineering firms. The proposals are presently being evaluated and a selection should be made before the end of the month of December.

A geotechnical consultant (Al Stewart of Piteau and Associates) was retained in November to evaluate the Expansion Project rock mechanics and slope stability criteria. His work will be used to optimize pit design and stripping ratios.

A Notice of Intent was submitted to the USFS on December 1, 1988. The letter notifies the USFS of our intent to proceed with the Expansion Project and that we will submit a Plan of Operations after the first of the year. It also initiates the administration activities to set up the EIS review including the transfer of an EIS coordinator.

### GENERAL

On November 8, 1988 during the general election the two anti mining initiatives were soundly defeated.

The small tracts act for lots 8 and 12 in section 5 was finally completed during November.

1989 budgets were obtained from all joint venture partners and included in the MinVen Gold Corp. 1989 budget preparation.

### DECEMBER ACTIVITIES

- \* Complete repairs on cell #5 and obtain approval from DWNR to commence loading and leaching.
- \* Complete neutralization of cell #6.
- \* Continue training employees.
- \* Order and stock all necessary repair parts.
- \* Prepare final asset listing and tag all equipment.
- \* Present 1989 operating and capital budgets.
- \* Select EPCM contractor.
- \* Finalize Expansion Project process flowsheet.
- \* Prepare Expansion Project plan of operations.
- \* Prepare Expansion Project reserve estimate.
- \* Continue all Expansion Project development.

Attached please find the monthly mine and plant statistics, the monthly manpower summary, monthly statistics compared to budget and an updated drill hole map and assay summary.

  
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Rex L. Outzen

RLO/dvl

enc:

cc: J. Barron	D. Layman
D. Blakeman	M. Neumann
P. Goodwin	C. Seward
G. Ireland	D. Stewart
D. Langford	J. Wilbanks

# GILT EDGE MINE

## MINE STATISTICS FOR THE MONTH OF NOVEMBER, 1988

DESCRIPTION	MONTH		YEAR TO DATE	
	CU YDS	TONS	CU YDS	TONS
SUNDAY PIT ORE	0	0	271,648	543,296
SUNDAY PIT WASTE	0	0	612,224	1,224,449
TOTAL SUNDAY PIT MINED	0	0	883,872	1,767,745
DAKOTA PIT ORE	0	0	2,238	4,476
DAKOTA PIT WASTE	717	1,434	64,780	129,560
TOTAL DAKOTA PIT MINED	717	1,434	67,018	134,036
TOTAL ORE MINED	0	0	273,886	547,772
TOTAL WASTE MINED	717	1,434	677,004	1,354,009
TOTAL MINED	717	1,434	950,890	1,901,781
GRADE ORE MINED	AU	AG	AU	AG
SUNDAY PIT ORE	---	---	.035	---
DAKOTA PIT ORE	---	---	.043	---
TOTAL ORE MINED	---	---	.035	---

COMMENTS \_\_\_\_\_

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# GILT EDGE MINE

## PLANT STATISTICS FOR THE MONTH OF NOVEMBER, 1988

DESCRIPTION	MONTH	YTD
DRY TONS CRUSHED	0	438909.9
TPD AVERAGE	0	6650.2
OPERATING TIME CRUSHING HRS/%	0 / 0	879.2/62.3
DOWNTIME - CRUSHING HRS/%	NA / NA	531.3/37.7
AVAILABLE TIME CRUSHING (HRS)	0	1410.5
OPERATING TIME LEACHING HRS/%	353.50/49.1	986.25/63.6
DOWNTIME - LEACHING HRS/%	366.50/50.9	563.75/36.4
AVAILABLE TIME LEACHING	720.00	1550.00
OPERATING TIME PRECIPITATION HRS/%	713.50/99.1	1356.75/91.3
DOWNTIME - PRECIPITATION HRS/%	6.50/0.9	129.25/8.7
AVAILABLE TIME PRECIPITATION	720.0	1486.00

ASSAYS	MONTH		YTD	
	AU	AG	AU	AG
ORE TO LEACH PADS	NA	NA	0.0344	0.1468
PREGNANT SOLUTION	0.023	0.018	0.054	0.046
BARREN SOLUTION	0.009	0.005	0.021	0.008
TAILINGS FROM PAD	NA	NA	NA	NA

PRODUCTION	MONTH	YTD
DORE PRODUCED	4612.7	12530.3
% AU IN DORE	42.02	40.39
% AG IN DORE	43.81	50.47
OZ AU PRODUCED	1938.09	5061.54
OZ AG PRODUCED	2020.92	6324.43
ORE TO PADS (TONS)	0	422205.3
TAILINGS FROM PADS	0	0

(plantstats)

(120588)

MINE STATISTICS COMPARED TO BUDGET  
NOVEMBER, 1988

	MONTH			YEAR TO DATE		
	1988 BUDGET	ACTUAL	VARIANCE	1988 BUDGET	ACTUAL	VARIANCE
ORE MINED (TONS)	156,000	0	<156,000>	764,000	547,772	<216,228>
WASTE MINED (TONS)	241,800	1,434	<240,366>	1,499,100	1,354,009	<145,091>
TOTAL MINED (TONS)	397,800	1,434	<396,366>	2,263,100	1,901,781	<361,319>
GRADE ORE MINED (OZ/TON AU)	.042	---	---	.036	.035	<.001>
ORE CRUSHED (TONS)	39,000	0	<39,000>	546,000	438,909.9	<107090.1>
GRADE ORE CRUSHED (OZ/TON AU)	.042	---	---	.036	.034	<.002>
ORE TO PADS (TONS)	39,000	0	<39,000>	546,000	422,205.3	<123794.7>
SPENT ORE F/PADS (TONS)	0	0	0	0	0	0
METAL PRODUCED (OZ)						
AU	3,400	1938.09	<1461.91>	9,100	5061.54	<4038.46>
AG	2,040	2020.92	<19.08>	5,900	6324.47	<424.47>



**BROHM MINING CORPORATION  
GILT EDGE MINE  
MANPOWER SUMMARY  
NOVEMBER, 1988**

<u>DESCRIPTION</u> =====	<u>SALARIED</u>		<u>HOURLY</u>		<u>TOTAL</u>	
	<u>Budget</u>	<u>Actual</u>	<u>Budget</u>	<u>Actual</u>	<u>Budget</u>	<u>Actual</u>
Engineering/Geology	5	5	0	0	5	5
Safety/Environmental	3	3	0	0	3	3
Processing	2	2	18	18	20	20
Maintenance	1	1	4	4	5	5
Laboratory	1	1	7	5	8	6
Administration	10	8	0	0	10	8
	=====	=====	=====	=====	=====	=====
TOTAL OXIDE	22	20	29	27	51	47
 Sulphide Project	 7	 3	 0	 0	 7	 3
Sulphide Project Temps	0	0	8	8	8	8
	=====	=====	=====	=====	=====	=====
TOTAL SULPHIDE	7	3	8	8	15	11
 GRAND TOTAL	 29	 23	 37	 35	 66	 58

<u>MONTH</u>	<u>TERMINATED</u>	<u>HIRED</u>	<u>NET CHANGE</u>
OXIDE PROJECT	0	0	0
SULPHIDE PROJECT	0	0	0
	=====	=====	=====
TOTAL	0	0	0

Assay Results  
Page 37

R88-476 TD = 1155'

50 - 55	5' @ .030
90 - 95	5' @ .020
125 - 140	15' @ .064
160 - 165	5' @ .029
460 - 465	5' @ .043
535 - 550	15' @ .047
575 - 580	5' @ .020
710 - 715	5' @ .020
845 - 860	15' @ .029
885 - 890	5' @ .020
910 - 935	25' @ .036
1145 - 1155	10' @ .034

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115' @ .037 (WAG)

R88-478 TD = 710'

20 - 55	35' @ .121
90 - 95	5' @ .031
110 - 150	40' @ .029
170 - 210	40' @ .041
230 - 385	55' @ .051
305 - 710	405' @ .086

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580' @ .077 (WAG)

R88-479 TD = 745'

20 - 40	20' @ .022
60 - 140	80' @ .054
250 - 255	5' @ .031
370 - 375	5' @ .029
615 - 625	10' @ .053

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120' @ .047 (WAG)

R88-480 TD = 545'

20 - 25	5' @ .022
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Assay Results  
Page 38

R88-481 TD = 900'

0 - 10	10' @ .036
120 - 155	35' @ .032
170 - 290	120' @ .033
305 - 330	25' @ .047
400 - 405	5' @ .040
420 - 425	5' @ .020
460 - 485	25' @ .026
560 - 565	5' @ .022
675 - 690	15' @ .037
705 - 730	25' @ .051
790 - 820	30' @ .021
890 - 895	5' @ .022

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305' @ .034

R88-482 TD = 1200'

270 - 320	50' @ .045
335 - 390	55' @ .029
415 - 420	5' @ .022
435 - 445	10' @ .030
470 - 500	30' @ .021
530 - 535	5' @ .025
555 - 580	25' @ .025
605 - 655	50' @ .023
675 - 1200	NO ASSAYS YET

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230' @ .030

R88-483 TD = 800'

10 - 35	25' @ .033
50 - 60	10' @ .034
715 - 725	10' @ .042

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45' @ .035

R88-484 TD = 725'

5 - 30	25' @ .043
55 - 65	10' @ .027
105 - 130	25' @ .020

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60' @ .031

Assay Results  
Page 39

R88-485 TD = 1365'

35 - 90	55' @ .077
140 - 415	275' @ .085
430 - 450	20' @ .067
475 - 500	25' @ .029
570 - 705	135' @ .028
735 - 740	5' @ .022
760 - 765	5' @ .028
810 - 820	10' @ .029
840 - 845	5' @ .021
885 - 890	65' @ .055
985 - 1035	50' @ .037
1060 - 1065	5' @ .026
1175 - 1190	15' @ .030
1300 - 1365	65' @ .041

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735' @ .058

R88-486 TD = 660'

385 - 395	10' @ .022
420 - 425	5' @ .036

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15' @ .027

R88-487 TD = 1175'

20 - 55	35' @ .052
85 - 90	5' @ .029
155 - 170	15' @ .038
185 - 215	30' @ .024
365 - 390	25' @ .046
705 - 710	5' @ .021
800 - 820	20' @ .080
910 - 935	25' @ .024
955 - 960	5' @ .022
1040 - 1065	25' @ .025
1100 - 1125	25' @ .029
1140 - 1145	5' @ .022

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220' @ .038

R88-488 TD = 700'

0 - 5	5' @ .024
585 - 590	5' @ .024
655 - 660	5' @ .029

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15' @ .026

Assay Results  
Page 40

R88-489 TD = 510'

40 - 45	5' @ .039
110 - 115	5' @ .119
185 - 190	5' @ .028
400 - 410	10' @ .056
440 - 455	15' @ .031

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40' @ .049

R88-490 TD = 1260'

35 - 45	10' @ .040
60 - 90	30' @ .024
125 - 160	35' @ .054
195 - 215	20' @ .027
300 - 325	25' @ .028
375 - 390	15' @ .037
410 - 455	45' @ .021
485 - 555	70' @ .033
575 - 600	25' @ .021
620 - 755	135' @ .036

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410' @ .033

R88-491 TD = 465'

30 - 35	5' @ .043
335 - 340	5' @ .032

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10' @ .038

R88-492 TD = 600'

0 - 5	5' @ .026
270 - 275	5' @ .031
390 - 395	5' @ .028
410 - 435	25' @ .044

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40' @ .038

Assay Results  
Page 41

R88-493 TD = 1020'

360 - 390	30' @ .041
430 - 435	5' @ .024
460 - 465	5' @ .024
480 - 505	25' @ .021
535 - 540	5' @ .020
565 - 575	10' @ .022
620 - 630	10' @ .025
645 - 695	50' @ .027
785 - 790	5' @ .024
900 - 920	20' @ .035
940 - 945	5' @ .024

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170' @ .029

R88-494 TD = 515'

95 - 110	15' @ .023
145 - 150	5' @ .029
190 - 195	5' @ .188
290 - 310	20' @ .068
325 - 335	10' @ .026
355 - 400	45' @ .058

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100' @ .057

R88-495 TD = 600'

305 - 330	25' @ .057
345 - 350	5' @ .022
400 - 405	5' @ .020

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35' @ .047

R88-496 TD = 800'

265 - 270	5' @ .021
385 - 390	5' @ .030
430 - 435	5' @ .020
620 - 625	5' @ .030
685 - 700	15' @ .027
730 - 785	55' @ .029

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90' @ .028

Assay Results  
Page 42

R88-497 TD = 600'

180 - 185	5' @ .030
550 - 565	15' @ .023

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20' @ .025

R88-498 TD = 1420'

75 - 95	20' @ .022
145 - 150	5' @ .045
185 - 235	50' @ .055
260 - 305	45' @ .033
325 - 330	5' @ .022
350 - 355	5' @ .022
425 - 430	5' @ .024
455 - 780	325' @ .054
810 - 820	10' @ .024
835 - 960	125' @ .039
985 - 1000	15' @ .035
1025 - 1030	5' @ .109
1225 - 1260	35' @ .021
1305 - 1310	5' @ .063
1340 - 1355	15' @ .088
1365 - 1405	40' @ .038

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710' @ .046

R88-499 TD = 400'

0 - 5	5' @ .021
230 - 235	5' @ .038
250 - 255	5' @ .024
390 - 395	5' @ .054

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20' @ .034

R88-500 TD = 465'

265 - 270	5' @ .026
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5' @ .026

R88-501 TD = 650'

585 - 625	40' @ .086
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40' @ .086

Assay Results  
Page 43

R88-502 TD = 1300'

15 - 30	15' @ .037
50 - 80	30' @ .031
105 - 175	70' @ .080
250 - 265	15' @ .021
285 - 290	5' @ .032
305 - 345	40' @ .021
395 - 400	5' @ .052
415 - 470	55' @ .040
505 - 525	20' @ .029
555 - 565	10' @ .080
630 - 810	180' @ .066
880 - 945	65' @ .024
1040 - 1065	25' @ .035
1125 - 1150	25' @ .028
1180 - 1185	5' @ .028
1255 - 1270	15' @ .044

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580' @ .047

R88-503 TD = 730'

95 - 105	10' @ .072
230 - 235	5' @ .021
490 - 495	5' @ .030
685 - 690	5' @ .021
705 - 710	5' @ .044

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30' @ .043

R88-505 TD = 1340'

80 - 165	85' @ .029
345 - 365	20' @ .022
400 - 495	95' @ .040
510 - 670	160' @ .069
690 - 720	30' @ .090
720 - 990	NO ASSAYS YET
1005 - 1010	5' @ .020
1100 - 1110	10' @ .094
1190 - 1195	5' @ .031

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410' @ .053



Assay Results

Page 44

R88-506 TD = 1100'

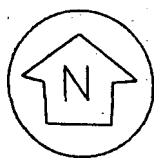
40 - 45	5' @ .020
65 - 70	5' @ .023
310 - 315	5' @ .020
540 - 650	110' @ .050
735 - 745	10' @ .044
760 - 830	70' @ .027
850 - 930	80' @ .130
945 - 950	5' @ .025
975 - 980	5' @ .031
1000 - 1005	5' @ .022

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305' @ .062

UPDATED - 11/29/88

25,000E



26,500E

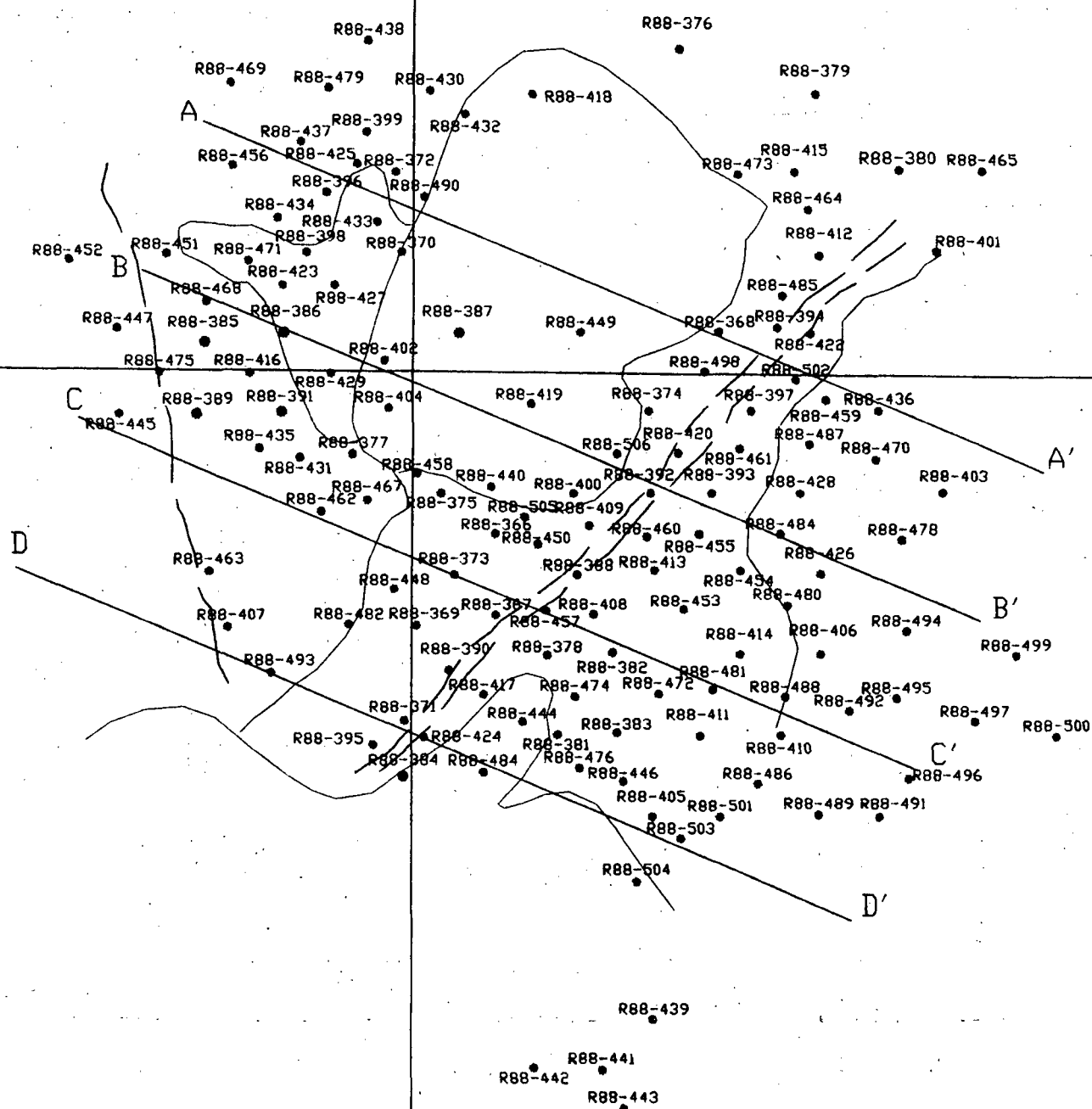
0 500' 1000'

28,500E

47,500N

□ Tqtp

□ Ttp

□ P<sub>c</sub>

45,500N

43,500N

CURRENT STATUS - 1988 SULPHIDE DEVELOPMENT DRILLING PROGRAM

GILT EDGE, SOUTH DAKOTA

DECEMBER 2, 1988

# BROHM MINING CORP.

DATE: NOVEMBER 7, 1988  
TO: MINVEN GOLD CORPORATION - LAKEWOOD, COLORADO  
FOR: JAMES A. ANDERSON  
FROM: REX L. OUTZEN  
SUBJECT: MONTHLY REPORT - GILT EDGE MINE - OCTOBER, 1988

## SUMMARY

A total of 3123.45 ounces of gold and 4303.51 ounces of silver were produced in October.

Leaching operations were suspended October 24, 1988. The suspension was at the request of the state DWNR due to minor leakage (5gpm) through the primary leach pad liner into the leak detection collection recovery system (LDCRS). A plan to identify the exact mechanism of the leak and to make repairs is presently being prepared. Upon DWNR approval, this plan will be implemented so that leaching operations can resume.

## MINING

Mining activities continued to run well in October. A total of 165,926 tons of ore and 276,308 tons of waste were mined during the month. Mining activities were suspended October 28th due to the leach pad situation and will remain down until leaching operations resume. The mine contractor has been extremely cooperative. Mine statistics for the month of October are attached.

## CRUSHING

The crushing plant crushed 94,580.8 dry tons of ore during October for an average of 464 dry tons per operating hour. Crushing operations were suspended October 20th due to the leach pad being fully loaded with ore. The crusher will remain down until ore on the leach pad is neutralized and off loaded, making available space for newly crushed ore. During this time, crusher maintenance will be performed.

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### LEACHING

Leaching operations continued well up until October 24th at which time they were suspended. Minor leakage through the primary leach pad liner was detected in the LDCRS. The leakage, although minor, exceeded the state action leakage rate of 500g pad. The state was notified of the leakage rate and upon notification, requested that leaching operations be suspended. A plan to identify the exact nature of the leak and to repair or reduce the leakage is now being prepared. The plan will be submitted to the state DWNR and upon approval will be implemented at which time leaching operations will commence once again.

### PROCESSING

The processing plant operated well in October treating an average of 532 gpm. Minor problems with clarification, deaeration and precipitation early in the month have been corrected. By the end of the month operations were running smoothly. Precipitate drying and refining were initiated in October and again, by the end of the month, bugs had been corrected and operations were pretty much routine. A total of 7917.6 ounces of dore containing 3123.45 ounces of gold and 4303.51 ounces of silver were produced in October. Bullion shipments were initiated during October and have proceeded smoothly. First settlement assays are due early in November. Plant statistics for the month of October are attached.

### CONSTRUCTION

Minor construction activities continued during the month. Along with minor punch list type items, the neutralization system and solution heating system were completed. This pretty much completes total plant construction and all contractors will demobilize early in November.

### STAFFING

Four new employees were added to the Gilt Edge Project early in October. These new additions completes the staffing requirements for the oxide project. The monthly manpower summary for October is attached.

### SAFETY

Hydrogen peroxide safety training classes were conducted this month for all employees to acquaint them with proper handling of hydrogen peroxide. No accidents were reported during October.

## EXPLORATION

Sulphide project exploration drilling continued in October. A total of 25 drill holes were completed for 21,850 feet of drilling. Results continue to be encouraging, however, grades and quantities of mineralized material are decreasing with additional drilling conducted farther away from known mineralization. An updated drill hole map and assay summary are enclosed.

The large diameter core drilling program was initiated early in October. The drilling has proceeded extremely well and by the end of the month 885 feet of core was obtained. The core will be used for large scale metallurgical testwork.

## SULPHIDE PROJECT

Sulphide project development work continued. A metallurgical testing program to optimize and finalize the sulphide project process flowsheet was initiated in October. The testwork is being performed by McClelland Labs in Reno under the supervision of metallurgical consultant Fred H. Lightner.

The development drilling program continued and the core drilling program was begun and continued smoothly.

Requests for proposal for engineering, procurement and construction management were sent to several major engineering companies during October. A site visit was conducted and proposals will be received early in December.

Requests for proposals for slope stability analysis work were prepared and sent to several firms this month. This analysis will be utilized for pit design optimization.

The U.S.F.S. MOU and collection requirement to transfer an EIS coordinator is presently on hold until after the November 8th election.

## GENERAL

The SDMA continued its effort to campaign against the anti mining initiatives. At the end of the month the polls indicate that we have done a good job and the initiatives will be defeated.

Site tours were given to several individuals during October including First Marathon, Jim Graham and Claude Biggot - Total Minerals, Howard Nichols - Advest and to Randy Ward from the California state regulatory agency.

### NOVEMBER ACTIVITIES

- \* Prepare and submit action plan to DWNR and obtain approval to resume leaching operations.
- \* Bring operation into full production.
- \* Commence neutralization of cell no. 6.
- \* Cross train employees.
- \* Order all necessary spare parts.
- \* Complete set up of warehousing system.
- \* Finalize 1989 capital and operating budgets.
- \* Prepare final asset listing and tag all equipment.
- \* Defeat anti mining initiatives.
- \* Continue sulphide project development.

Attached please find the monthly mine and plant statistics, the monthly manpower summary, monthly statistics compared to budget, monthly cost reports and an updated drill hole map and assay summary.

  
\_\_\_\_\_  
Rex L. Outzen

RLO/dvl

cc: J. Barron  
D. Blakeman  
P. Goodwin  
G. Ireland  
D. Langford  
D. Layman  
M. Neumann  
C. Seward  
D. Stewart  
J. Wilbanks

# GILT EDGE MINE

## MINE STATISTICS FOR THE MONTH OF OCTOBER, 1988

DESCRIPTION	MONTH		YEAR TO DATE	
	CU YDS	TONS	CU YDS	TONS
SUNDAY PIT ORE	<u>82,963</u>	<u>165,926</u>	<u>271,648</u>	<u>543,296</u>
SUNDAY PIT WASTE	<u>136,188</u>	<u>272,376</u>	<u>612,224</u>	<u>1,224,449</u>
TOTAL SUNDAY PIT MINED	<u>219,151</u>	<u>438,302</u>	<u>883,872</u>	<u>1,767,745</u>
DAKOTA PIT ORE	<u>0</u>	<u>0</u>	<u>2,238</u>	<u>4,476</u>
DAKOTA PIT WASTE	<u>1,966</u>	<u>3,932</u>	<u>64,063</u>	<u>128,126</u>
TOTAL DAKOTA PIT MINED	<u>1,966</u>	<u>3,932</u>	<u>66,301</u>	<u>132,602</u>
TOTAL ORE MINED	<u>82,963</u>	<u>165,926</u>	<u>273,886</u>	<u>547,772</u>
TOTAL WASTE MINED	<u>138,154</u>	<u>276,308</u>	<u>676,287</u>	<u>1,352,575</u>
TOTAL MINED	<u>221,117</u>	<u>442,234</u>	<u>950,173</u>	<u>1,900,347</u>
GRADE ORE MINED	<u>AU</u>	<u>AG</u>	<u>AU</u>	<u>AG</u>
SUNDAY PIT ORE	<u>.035</u>	<u>---</u>	<u>.035</u>	<u>---</u>
DAKOTA PIT ORE	<u>---</u>	<u>---</u>	<u>.043</u>	<u>---</u>
TOTAL ORE MINED	<u>.035</u>	<u>---</u>	<u>.035</u>	<u>---</u>

COMMENTS \_\_\_\_\_

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# GILT EDGE MINE

## PLANT STATISTICS FOR THE MONTH OF OCTOBER, 1988

DESCRIPTION	MONTH	YTD
DRY TONS CRUSHED	94580.8	438909.9
TPD AVERAGE	7275.4	6650.2
OPERATING TIME CRUSHING HRS/%	203.8/65.3	879.2/62.3
DOWNTIME - CRUSHING HRS/%	108.2/34.7	531.3/37.7
AVAILABLE TIME CRUSHING (HRS)	312.0	1410.5
OPERATING TIME LEACHING HRS/%	552.3/74.2	632.8/76.2
DOWNTIME - LEACHING HRS/%	191.7/35.8	197.2/33.8
AVAILABLE TIME LEACHING	744.0	830.0
OPERATING TIME PRECIPITATION HRS/%	621.3/83.5	643.3/84.0
DOWNTIME - PRECIPITATION HRS/%	122.7/16.4	122.7/16.0
AVAILABLE TIME PRECIPITATION	744.0	766.0

ASSAYS	MONTH		YTD	
	AU	AG	AU	AG
ORE TO LEACH PADS	0.0311	0.1122	0.0344	0.1468
PREGNANT SOLUTION	0.081	0.071	0.079	0.070
BARREN SOLUTION	0.032	0.011	0.032	0.011
TAILINGS FROM PAD	---	---	---	---

PRODUCTION	MONTH	YTD
DORE PRODUCED	7917.6	7917.6
% AU IN DORE	39.45	39.45
% AG IN DORE	54.35	54.35
OZ AU PRODUCED	3123.45	3123.45
OZ AG PRODUCED	4303.51	4303.51
ORE TO PADS (TONS)	92943.3	422205.3
TAILINGS FROM PADS	0	0

(plantstats)

(110488)



MINE STATISTICS COMPARED TO BUDGET  
OCTOBER, 1988

	MONTH			YEAR TO DATE		
	1988 BUDGET	ACTUAL	VARIANCE	1988 BUDGET	ACTUAL	VARIANCE
ORE MINED (TONS)	156,000	165,926	9,926	608,000	547,772	<60,228>
WASTE MINED (TONS)	241,900	276,308	34,408	1,257,300	1,352,575	95,275
TOTAL MINED (TONS)	397,900	442,234	44,334	1,865,300	1,900,347	35,047
GRADE ORE MINED (OZ/TON AU)	.041	.035	<.006>	.035	.035	.000
ORE CRUSHED (TONS)	156,000	94,580.8	<61419.2>	507,000	438,909.9	<68090.1>
GRADE ORE CRUSHED (OZ/TON AU)	.041	.032	<.009>	.035	.034	<.001>
ORE TO PADS (TONS)	156,000	92,943.3	<63056.7>	507,000	422,205.3	<84794.7>
SPENT ORE F/PADS (TONS)	0	0	0	0	0	0
METAL PRODUCED (OZ)						
AU	3,500	3123.45	<376.55>	5,700	3123.45	<2576.55>
AG	2,100	4303.51	2203.51	3,860	4303.51	443.51

BROHM MINING CORPORATION  
GILT EDGE MINE  
MANPOWER SUMMARY  
OCTOBER 1988

DESCRIPTION =====	SALARIED		HOURLY		TOTAL	
	Budget	Actual	Budget	Actual	Budget	Actual
Engineering/Geology	5	5	0	0	5	5
Safety/Environmental	3	3	0	0	3	3
Processing	2	2	18	18	20	20
Maintenance	1	1	4	4	5	5
Laboratory	1	1	7	5	8	6
Administration	10	8	0	0	10	8
	=====	=====	=====	=====	=====	=====
TOTAL OXIDE	22	20	29	27	51	47
Sulphide Project	7	3	0	0	7	3
Sulphide Project Temps	0	0	8	8	8	8
	=====	=====	=====	=====	=====	=====
TOTAL SULPHIDE	7	3	8	8	15	11
GRAND TOTAL	29	23	37	35	66	58

<u>MONTH</u>	<u>TERMINATED</u>	<u>HIRED</u>	<u>NET CHANGE</u>
OXIDE PROJECT	0	4	4
SULPHIDE PROJECT	0	2	2
	=====	=====	=====
TOTAL	0	6	6

Assay Results  
Page 25

R88-434 TD = 700'

65 - 210	145' @ .048
265 - 270	5' @ .024
285 - 290	5' @ .023
390 - 430	40' @ .019
450 - 525	75' @ .032
545 - 605	60' @ .038
625 - 685	60' @ .022

---

390' @ .036 (WAG)

R88-435 TD = 580'

15 - 60	45' @ .036
195 - 230	35' @ .029
245 - 265	20' @ .021
285 - 580(TD)	295' @ .040

---

395' @ .038 (WAG)

R88-436 TD = 1020'

85 - 95	10' @ .070
360 - 375	15' @ .020
435 - 440	5' @ .029
630 - 635	5' @ .032
650 - 655	5' @ .048
705 - 710	5' @ .032
740 - 750	10' @ .020
765 - 770	5' @ .040
810 - 815	5' @ .029
915 - 980	65' @ .026

---

130' @ .030 (WAG)

R88-437 TD = 700'

55 - 65	10' @ .050
295 - 305	10' @ .027
610 - 630	20' @ .034
645 - 655	10' @ .024

---

50' @ .034 (WAG)

Assay Results  
Page 26

R88-438 TD = 525'

380 - 405	25' @ .047
475 - 480	5' @ .034

---

30' @ .045 (WAG)

R88-439 TD = 605'

15 - 20	5' @ .026
85 - 110	25' @ .018
215 - 220	5' @ .020
245 - 250	5' @ .020
265 - 270	5' @ .021
545 - 595	50' @ .033

---

95' @ .027 (WAG)

R88-440 TD = 1600'

155 - 160	5' @ .045
375 - 490	115' @ .032
705 - 775	70' @ .066
1070 - 1090	20' @ .035
1130 - 1210	80' @ .031
1400 - 1405	5' @ .021
1420 - 1425	5' @ .029
1450 - 1470	20' @ .025

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320' @ .039 (WAG)

R88-441 TD = 245'

0 - 5	5' @ .065
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5' @ .065 (WAG)

R88-442 TD = 445'

0 - 5	5' @ .020
30 - 95	65' @ .040
120 - 200	80' @ .029
240 - 245	5' @ .022
290 - 340	50' @ .024
355 - 360	5' @ .071

---

210' @ .032 (WAG)

Assay Results  
Page 27

R88-443 TD = 660'

125 - 240	115' @ .047
265 - 325	60' @ .052

---

175' @ .049 (WAG)

R88-444 TD = 1200'

10 - 70	60' @ .023
105 - 110	5' @ .028
285 - 290	5' @ .029
355 - 360	5' @ .025
380 - 385	5' @ .030
780 - 815	35' @ .040
835 - 905	70' @ .024
955 - 1065	110' @ .021
1090 - 1115	25' @ .029
1135 - 1140	5' @ .028
1175 - 1180	5' @ .020

---

330' @ .025

R88-445 TD = 545'

130 - 150	20' @ .026
360 - 365	5' @ .026
380 - 400	20' @ .050
425 - 530	105' @ .028

---

150' @ .031 (WAG)

R88-446 TD = 1000'

145 - 150	5' @ .035
335 - 340	5' @ .051
425 - 430	5' @ .020
635 - 650	15' @ .102
815 - 820	5' @ .022
900 - 905	5' @ .033

---

40' @ .022 (WAG)

Assay Results  
Page 28

R88-447 TD = 785'

30 - 35	5' @ .020
265 - 275	10' @ .044
410 - 415	5' @ .025
555 - 565	10' @ .022
625 - 630	5' @ .020
665 - 785 (EOH)	120' @ .036

---

155' @ .034 (WAG)

R88-448 TD = 1000'

55 - 70	15' @ .023
90 - 180	90' @ .035
205 - 290	85' @ .021
320 - 325	5' @ .032
375 - 380	5' @ .021
395 - 430	35' @ .021
450 - 475	25' @ .020
495 - 585	90' @ .027
630 - 635	5' @ .045
650 - 655	5' @ .041
670 - 675	5' @ .023
725 - 730	5' @ .058
765 - 810	45' @ .021
830 - 835	5' @ .043

---

420' @ .026 (WAG)

R88-449 TD = 600'

435 - 440	5' @ .088
550 - 580	30' @ .033

---

35' @ .041 (WAG)

Assay Results  
Page 29

R88-450      TD = 1125'

25 - 55	30' @ .025
135 - 250	115' @ .029
275 - 485	210' @ .082
525 - 530	5' @ .028
550 - 555	5' @ .022
585 - 595	10' @ .077
640 - 650	10' @ .019
710 - 715	5' @ .031
765 - 770	5' @ .027
905 - 910	5' @ .031
925 - 930	5' @ .025
960 - 970	10' @ .023
1000 - 1005	5' @ .038
1025 - 1030	5' @ .022
1060 - 1090	30' @ .023
(EOH) 1120 - 1125	5' @ .023

---

460' @ .052

R88-451      TD = 1120'

75 - 80	5' @ .025
200 - 205	5' @ .030
315 - 345	30' @ .026
485 - 515	30' @ .039
590 - 595	5' @ .032
640 - 655	15' @ .023
810 - 835	25' @ .021

---

115' @ .028 (WAG)

R88-452      TD = 365'

NO SIG. ASSAYS.

R88-453      TD = 820'

0 - 40	40' @ .053
65 - 115	50' @ .034
135 - 225	90' @ .104
275 - 355	80' @ .023
385 - 395	10' @ .022
415 - 435	20' @ .021
455 - 465	10' @ .025
485 - 805	320' @ .037

---

620' @ .045 (WAG)

Assay Results  
Page 30

R88-454 TD = 800'

25 - 55	30' @ .072
275 - 285	10' @ .030
300 - 330	30' @ .032
535 - 540	5' @ .035
600 - 625	25' @ .024
665 - 675	10' @ .024
695 - 700	5' @ .025

---

115' @ .040

R88-455 TD = 785'

30 - 140	110' @ .028
170 - 570	400' @ .040
735 - 740	5' @ .021
760 - 785	25' @ .037

---

540' @ .037

R88-456 TD = 905'

0 - 20	20' @ .028
35 - 40	5' @ .023
80 - 125	45' @ .032
720 - 750	30' @ .035
770 - 785	15' @ .021
870 - 900	30' @ .039

---

145' @ .032

R88-457 TD = 1400'

0 - 65	65' @ .022
85 - 90	5' @ .022
125 - 130	5' @ .020
150 - 165	15' @ .024
180 - 185	5' @ .060
205 - 225	20' @ .022
270 - 275	5' @ .025
300 - 355	55' @ .026
385 - 400	15' @ .039
520 - 550	30' @ .034
580 - 605	25' @ .029
925 - 930	5' @ .091
1055 - 1075	20' @ .018
1150 - 1250	100' @ .054
1285 - 1290	5' @ .023

---

375' @ .035 (WAG)



Assay Results  
Page 31

R88-458 TD = 1055'

80 - 85	5' @ .027
240 - 245	5' @ .024
295 - 300	5' @ .022
320 - 350	30' @ .030
400 - 405	5' @ .022
465 - 470	5' @ .020
490 - 525	35' @ .033
645 - 655	10' @ .025
710 - 790	80' @ .039
845 - 855	10' @ .031
930 - 1040	110' @ .038

---

300' @ .035

R88-459 TD = 800'

0 - 20	20' @ .054
35 - 50	5' @ .023
60 - 65	5' @ .022
135 - 140	5' @ .029
150 - 155	5' @ .020
170 - 175	5' @ .038
200 - 210	10' @ .033
240 - 245	5' @ .025
395 - 400	5' @ .029
445 - 470	25' @ .033
530 - 540	10' @ .045
665 - 670	5' @ .025
715 - 720	5' @ .026
780 - 785	5' @ .025

---

115' @ .035 (WAG)

R88-460 TD = 1120'

0 - 110	110' @ .041
180 - 185	5' @ .021
225 - 255	30' @ .087
290 - 295	5' @ .426
295 - 315	NO ASSAYS YET
315 - 445	130' @ .113
465 - 730	265' @ .044
785 - 795	10' @ .030
880 - 885	5' @ .070
915 - 920	5' @ .031
960 - 965	5' @ .023

---

570' @ .064 (WAG)

Assay Results  
Page 32

R88-461 TD = 1065'

0 - 140	140' @ .034
155 - 160	5' @ .026
175 - 220	45' @ .027
245 - 250	5' @ .068
295 - 340	45' @ .041
360 - 475	115' @ .030
500 - 585	85' @ .076
730 - 840	110' @ .034
875 - 985	120' @ .068
1005 - 1015	10' @ .049

---

680' @ .045 (WAG)

R88-462 TD = 850'

5 - 10	5' @ .020
35 - 45	10' @ .024
120 - 125	5' @ .022
145 - 150	5' @ .020
215 - 240	25' @ .027
255 - 385	130' @ .041
400 - 520	120' @ .027
535 - 715	180' @ .043
735 - 825	90' @ .047

---

570' @ .038 (WAG)

R88-463 TD = 555'

0 - 15	15' @ .027 (TAILINGS)
250 - 255	5' @ .041
365 - 370	5' @ .037
480 - 555(TD)	75' @ .033 (LOST HOLE IN FAULT ZONE)

---

100' @ .033

Assay Results  
Page 33

R88-464 TD = 1010'

25 - 30	5' @ .024
55 - 150	95' @ .047
260 - 295	35' @ .047
310 - 350	40' @ .028
445 - 455	10' @ .026
505 - 510	5' @ .020
530 - 535	5' @ .020
545 - 550	5' @ .020
570 - 610	40' @ .035
690 - 725	35' @ .020
740 - 765	25' @ .026
790 - 795	5' @ .022
820 - 825	5' @ .021
845 - 855	10' @ .023
880 - 885	5' @ .023
905 - 995	90' @ .034

---

415' @ .034 (WAG)

R88-465 TD = 600'

NO SIGNIFICANT ASSAYS

R88-466 TD = 40'

D.H. ABANDONED - COLLAPSED CASING

R88-467 TD = 1250'

10 - 160	150' @ .032
175 - 235	60' @ .023
300 - 330	30' @ .029
345 - 365	20' @ .018
385 - 605	220' @ .034
640 - 820	180' @ .045
845 - 955	110' @ .032
900 - 995	5' @ .095
1065 - 1135	70' @ .125
1160 - 1165	5' @ .027
1180 - 1185	5' @ .026

---

855' @ .042 (W.A.G.)

Assay Results  
Page 34

R88-468      TD = 1000'

65 - 100	35' @ .027
115 - 155	40' @ .023
220 - 230	10' @ .022
305 - 355	50' @ .089
375 - 505	130' @ .039
525 - 565	40' @ .042
630 - 635	5' @ .021
705 - 715	10' @ .023
755 - 760	5' @ .026
800 - 805	5' @ .059
840 - 935	95' @ .052
950 - 955	5' @ .022
975 - 985	10' @ .024

---

440' @ .044

R88-469      TD = 500'

260 - 270      10' @ .022

R88-470      TD = 950'

15 - 50	35' @ .095
90 - 140	50' @ .025
225 - 230	5' @ .026
290 - 295	5' @ .022
410 - 420	10' @ .060
475 - 490	15' @ .046
745 - 750	5' @ .021
905 - 930	25' @ .091
945 - 950(TD)	5' @ .020

---

155' @ .055 (WAG)

Assay Results  
Page 35

R88-471      TD = 1025'

0 - 10	10' @ .064
35 - 80	45' @ .043
110 - 120	10' @ .030
135 - 155	20' @ .035
180 - 200	20' @ .079
200 - 225	5' @ .021
320 - 425	105' @ .060
450 - 460	10' @ .044
495 - 500	5' @ .022
515 - 535	20' @ .021
600 - 620	20' @ .020
640 - 650	10' @ .024
700 - 710	10' @ .022
845 - 850	5' @ .022
865 - 890	5' @ .030
910 - 915	5' @ .030
1015 - 1020	5' @ .263

---

310' @ .049 (WAG)

R88-472      TD = 1200'

0 - 15	15' @ .038
395 - 435	40' @ .020
475 - 590	15' @ .036
625 - 680	55' @ .022
715 - 725	10' @ .028
750 - 755	5' @ .028
805 - 810	5' @ .037
830 - 835	5' @ .024
850 - 855	5' @ .026
865 - 870	5' @ .022
1185 - 1195	10' @ .033

---

170' @ .026 (WAG)

Assay Results  
Page 36

R88-473 TD = 1245'

390 - 405	15'	@ .040
710 - 735	25'	@ .048
755 - 765	10'	@ .025
800 - 825	25'	@ .025
920 - 925	5'	@ .024
940 - 945	5'	@ .036
985 - 1020	35'	@ .026
1040 - 1045	5'	@ .024
1060 - 1100	40'	@ .034
1115 - 1120	5'	@ .020
1150 - 1155	5'	@ .024
1180 - 1245(TD)	65'	@ .052

---

240' @ .037 (WAG)

R88-474 TD = 1200'

15 - 55	40'	@ .042
195 - 200	5'	@ .021
285 - 290	5'	@ .032
365 - 370	5'	@ .045
390 - 395	5'	@ .034
410 - 415	5'	@ .036
515 - 520	5'	@ .022
575 - 655	80'	@ .057
670 - 675	5'	@ .024
725 - 730	5'	@ .020
740 - 745	5'	@ .020
780 - 805	25'	@ .023
855 - 865	10'	@ .038
925 - 930	5'	@ .022

---

210' @ .041 (WAG)

R88-475 TD = 810'

10 - 15	5'	@ .020
50 - 55	5'	@ .020
165 - 170	5'	@ .025
185 - 405	220'	@ .034
425 - 445	20'	@ .046
465 - 470	5'	@ .048
495 - 545	50'	@ .028
580 - 705	125'	@ .054
740 - 790	50'	@ .027

---

485' @ .038 (WAG)

Assay Results  
Page 37

R88-476 TD = 1155'

50 - 55	5' @ .030
90 - 95	5' @ .020
125 - 140	15' @ .066
160 - 165	5' @ .027
535 - 550	15' @ .045
575 - 580	5' @ .020
710 - 715	5' @ .020
845 - 860	15' @ .027
885 - 890	5' @ .020
910 - 935	25' @ .041
1145 - 1155	10' @ .034

---

110' @ .037 (WAG)

R88-478 TD = 710'

20 - 55	35' @ .121
90 - 95	5' @ .031
110 - 150	40' @ .029
170 - 210	40' @ .041
230 - 385	55' @ .051
305 - 315	10' @ .024
325 - 710	NO ASSAYS YET

---

185' @ .055 (WAG)

R88-479 TD = 745'

20 - 40	20' @ .022
60 - 140	80' @ .054
250 - 255	5' @ .031
370 - 375	5' @ .029
615 - 625	10' @ .053
665 - 745	NO ASSAYS YET

---

120' @ .047 (WAG)

R88-480 TD = 545'

20 - 25	5' @ .022
---------	-----------





# BROHM MINING CORP.

DATE: OCTOBER 17, 1988  
TO: MINVEN GOLD CORPORATION  
FOR: GEORGE IRELAND  
FROM: REX L. OUTZEN  
SUBJECT: GILT EDGE PROJECT UPDATE

As per your request, the following is a project update summary for the first few weeks of operation in October.

As you recall from the September monthly report, leaching of the first ore commenced late the afternoon of September 27th. On Friday the 30th the process plant was started up and over the weekend, operated fairly well. We encountered the regular start problems such as short clarification and precipitation filter life and difficulties with pump seal water pressure etc. Instrumentation had not yet been placed into operation, therefore, we had no way of identifying exact plant throughput. This turned out to be part of our problem, as when flowmeters were placed into operation, we found that we had started up the plant and were operating it in excess of the design rate. Additionally, we encountered vacuum problems and therefore, had difficulties with precipitation resulting in high gold values in the barren solution.

On Monday, the 3rd of October, the first filter press was cleaned and the material was placed into the retort for drying. The initial precipitate was low grade ~ 5% dore' with about 90% insol. However, once the material was dried, the precipitate was fluxed and the first gold and silver dore' button was poured on October 6th.

Overall the operation is running quite well. Mining activity is proceeding smoothly. Ore grades are slightly higher than planned. The crushing plant is running extremely well and throughput rates exceed those planned while producing a product which is significantly finer than the design specifications. Leaching commenced September 27 and is proceeding smoothly. Solution grades are much higher than expected indicating the ore is leaching well. The process plant is running fairly well and the operators are becoming much more adept at operating. Refining operations are proceeding well and has poured over 3058 ounces of dore' containing 1118 ounces of gold and 1782 ounces of silver.

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George Ireland  
October 17, 1988  
Page 2

We are now in the process of debugging, correcting minor problems and starting optimization. The following is a list of problem areas being addressed.

1. Make sure all instrumentation is fully operational in order to operate plant within design limits and accurately account for all metal produced.
2. Improve process plant recovery.
3. Improve clarification filter press life.
4. Remedy minor interruptions in vacuum system.
5. Increase seal or gland water pressure.
6. Improve precipitate grades by decreasing addition of diatomaceous earth to precipitate filter presses.
7. Remedy minor problems with retort operation in order to dry backlog of precipitate.
8. Optimize precipitate fluxing to reduce production of slag.
9. Continue to train and work with operators on identifying and correcting minor operating problems.
10. Get spare parts and formal warehousing system set up to reduce downtime due to lack of parts on hand.

Attached please find a copy of the daily production statistics report.

If you have any questions or need additional information, please let me know.

  
Rex L. Outzen

RLO/dvl

enc:

**GILT EDGE MINE**  
**Daily Production Report**

October 19, 1988

DATE 10/18/88

DAILY

	<u>Tons</u>	<u>Au</u>	<u>Ag</u>	<u>Oz. Au</u>	<u>Oz. Ag</u>
Ore Mined	6760.0	0.033	0.000	223.080	0.000
Waste Mined	14456.0				
Ore Crushed	6078.5	0.038	0.040	230.983	243.140
Preg Solution	2749.0	0.067	0.054	184.183	148.446
Barren Solution	2749.0	0.019	0.004	52.231	10.996
On Solution	4200.0	0.044	0.028	184.800	117.600
Dore Oz Prod.	409.600			131.952	137.450
Operating Time-Hrs %: Crushing	55.21	Leaching	100.00	Precipitation	95.83
Operating Time-Act. : Crushing	13.25	Leaching	24.00	Precipitation	23.00
Operating Time-Sched: Crushing	24.00	Leaching	24.00	Precipitation	24.00

\*\*\*\*\*

MONTH TO DATE

	<u>Tons</u>	<u>Grade Oz/Ton</u>	<u>Au</u>	<u>Ag</u>	<u>Oz. Au</u>	<u>Oz. Ag</u>
Ore Mined	130312.0	0.036	0.000	4687.696	0.000	
Waste Mined	163436.0					
Ore Crushed	88003.2	0.031	0.108	2758.325	9470.769	
Preg Solution	55648.0	0.095	0.086	5279.621	4778.515	
Barren Solution	55648.0	0.038	0.013	2125.561	705.203	
On Solution	80200.0	0.055	0.036	4389.700	2915.300	
Dore Oz Prod.	3058.800	Calc. Production		3154.060	4073.312	
Operating Time-Hrs %: Crushing	65.66	Leaching	99.59	Precipitation	73.78	
Operating Time-Act. : Crushing	189.10	Leaching	430.25	Precipitation	318.75	
Operating Time-Sched: Crushing	288.00	Leaching	432.00	Precipitation	432.00	

\*\*\*\*\*

YEAR TO DATE

	<u>Tons</u>	<u>Grade Oz/Ton</u>	<u>Au</u>	<u>Ag</u>	<u>Oz. Au</u>	<u>Oz. Ag</u>
Ore Mined	512158.0	0.035	0.000	17996.560	0.000	
Waste Mined	1239703.0					
Ore Crushed	432332.3	0.034	0.147	14824.889	63383.429	
Preg Solution	58619.0	0.092	0.084	5377.664	4909.239	
Barren Solution	58619.0	0.037	0.013	2176.068	761.652	
On Solution	83200.0	0.053	0.036	4437.700	2969.300	
Dore Oz Prod.	3058.800	Calc. Production		3201.596	4147.587	
Operating Time-Hrs %: Crushing	62.35	Leaching	98.60	Precipitation	75.06	
Operating Time-Act. : Crushing	864.54	Leaching	510.75	Precipitation	340.75	
Operating Time-Sched: Crushing	1386.50	Leaching	518.00	Precipitation	454.00	

\*\*\*\*\*

PROJECT TO DATE

	<u>Tons</u>	<u>Grade Oz/Ton</u>	<u>Au</u>	<u>Ag</u>	<u>Oz. Au</u>	<u>Oz. Ag</u>
Ore Mined	512158.0	0.035	0.000	17996.560	0.000	
Waste Mined	1239703.0					
Ore Crushed	432332.3	0.034	0.147	14824.889	63383.429	
Preg Solution	58619.0	0.092	0.084	5377.664	4909.239	
Barren Solution	58619.0	0.037	0.013	2176.068	761.652	
On Solution	83200.0	0.053	0.036	4437.700	2969.300	
Dore Oz Prod.	3058.800	Calc. Production		3201.596	4147.587	
Operating Time-Hrs %: Crushing	62.35	Leaching	98.60	Precipitation	75.06	
Operating Time-Act. : Crushing	864.54	Leaching	510.75	Precipitation	340.75	
Operating Time-Sched: Crushing	1386.50	Leaching	518.00	Precipitation	454.00	

\*\*\*\*\*

DATE: OCTOBER 10, 1988  
TO: MINVEN GOLD CORPORATION - LAKEWOOD, COLORADO  
FOR: JAMES A. ANDERSON  
FROM: REX L. OUTZEN  
SUBJECT: MONTHLY REPORT - GILT EDGE PROJECT - SEPTEMBER, 1988

#### SUMMARY

The installation of the additional liner in the surge pond was completed. Approval to commence cyanide application was granted by the State DWR and leaching of the first ore was initiated the evening of September 27th. The process plant commenced operation September 30th and the first gold was poured October 6th.

#### MINING

Mining activities operated well in September. A total of 187,814 tons of ore and 351,666 tons of waste were mined during the month. Mining rates were accelerated during September in order to maintain the ore crushing rates which are higher than planned. Through the end of September actual ore tons are slightly less than that projected by the mine model. Investigations into this matter have been initiated. Mine statistics for the month of September are attached.

#### CRUSHING

The crushing plant crushed a total of 181,572.3 dry tons of ore (16% above plan) during September for an average of 514 dry tons per operating hour. Overall the crushing plant is operating well at higher than planned production rates while producing a product which is significantly finer than the design specifications. Crushing activities will be curtailed somewhat in October as the leach pad will be filled to capacity with crushed ore. This time will be utilized to replace crusher wear liners.

#### LEACHING

The additional surge pond liner installation was completed during the month. Once complete, the State DWR granted approval to commence cyanide mixing and leaching of the first ore commenced September 27th. Leach pad loading operations continued during September with a total of 210,509 tons of crushed ore being loaded during the month. At the end of the month, five heaps (cells # 1, 2, 3, 6, 7) were under leach.

Initial results are very encouraging and indicate that the ore is leaching extremely well. Plant statistics for September are attached.

### CONSTRUCTION

Construction activities continued and by the end of September were almost complete. The only construction items that remain to be completed are the neutralization system and the installation of the submerged combustion heater and heat exchanger. These items should be completed in October.

### STAFFING

Bill Moths (surveyor) was hired during the month of September. Bill will assume Mike Golliher's surveying responsibilities and Mike will assume Tim Fox's mine planning responsibilities. Tim was transferred to development and will assist Doug Stewart in sulphide project development. Todd Merchant, temporary geologist, left the Gilt Edge Project during the month. The monthly manpower summary for September is attached.

### PROPERTY STATUS

Negotiations were finalized with Rod Geoffrey for 62.5 acres in September. Placer claims were staked in upper Lost Gulch and application was made for a federal prospecting permit for 313 acres in Lost Gulch. The Gilt Edge property map is presently being updated and will reflect all new acquisitions. The 1988 Affidavits of Labor were filed with Lawrence County and the BLM during the month, therefore, all assessment work is complete for this year.

### ENVIRONMENTAL/PERMITTING

Most all permitting has been completed. The DWNR inspected the crushing plant during the month and found no problems. The final air quality operating permit will now be issued. Several technical revisions were prepared and submitted to the DWNR including additional liner in surge pond and leach pad loading configuration. Approval of the technical revision is anticipated shortly. The post construction aquatic sampling was completed by OEA Research during September. A reduction in water quality sampling parameters was approved by the DWNR this month.

## EXPLORATION/GEOLOGY

Sulphide project development drilling continued during September. A total of 35 drill holes were completed for 29,135 feet of drilling. Results continue to be very encouraging. An updated drill hole map and assay summary are enclosed. Cross sections and the computer data base continue to be updated with new drilling information as soon as it is available.

## SULPHIDE PROJECT

Sulphide project development work continued. Minproc completed the prefeasibility study and issued Brohm the final copies.

Fred H. Lightner has been hired as a metallurgical consultant to develop and oversee the final metallurgical testing.

A core driller was selected for the 6" metallurgical samples and the bid was awarded to Luisier Drilling. They will mobilize early in October.

An RFP for an engineering firm was prepared and will be sent to numerous companies early in October.

The (MOU) Memorandum of Understanding is being prepared with the USFS for the third party EIS contractor.

## GENERAL

The SDMA continues to campaign against the anti mining initiatives. A poll was recently taken and results indicated that both initiatives would be passed. However, the poll also identified several concerns which are now being addressed with a new scope of advertising. Pete Goodwin continues to put forth effort in this area.


Chuck Michels and John Fitzgerald, both members of the South Dakota Board of Minerals and Environment, and Dale Snyder and Lauren Drake of the DWNr were given a tour of the Gilt Edge Project on September 28th. All of them were very complimentary of the operation.

## OCTOBER ACTIVITIES

- \* Finalize all aspects of construction of the heap leach project.
- \* Bring operation into full production.
- \* Complete solution heater installation.

- \* Complete installation of neutralization system.
- \* Continue operator training.
- \* Commence shipment of all dore' production.
- \* Order all necessary spare parts and operating supplies.
- \* Set up formal, organized warehousing system.
- \* Prepare final asset list along with physical inventory and tagging of all equipment.
- \* Prepare 1989 operating and capital budgets.
- \* Continue SDMA efforts to assist in defeating the anti mining initiatives.
- \* Continue all phases of sulphide project development.

Attached please find the monthly mine and plant statistics, the monthly manpower summary report, monthly statistics compared to budget and an updated drill hole map and assay summary.

  
Rex L. Outzen

RLO/dvl

cc: J. Barron  
D. Blakeman  
P. Goodwin  
G. Ireland  
D. Langford  
D. Layman  
M. Neumann  
C. Seward  
D. Stewart  
J. Wilbanks

## GILT EDGE MINE

## MINE STATISTICS FOR THE MONTH OF SEPTEMBER, 1988

DESCRIPTION	MONTH		YEAR TO DATE	
	CU YDS	TONS	CU YDS	TONS
SUNDAY PIT ORE	<u>93,164</u>	<u>186,328</u>	<u>188,685</u>	<u>377,370</u>
SUNDAY PIT WASTE	<u>175,688</u>	<u>351,376</u>	<u>476,036</u>	<u>952,073</u>
TOTAL SUNDAY PIT MINED	<u>268,852</u>	<u>537,704</u>	<u>664,721</u>	<u>1,329,443</u>
DAKOTA PIT ORE	<u>743</u>	<u>1,486</u>	<u>2,238</u>	<u>4,476</u>
DAKOTA PIT WASTE	<u>145</u>	<u>290</u>	<u>62,097</u>	<u>124,194</u>
TOTAL DAKOTA PIT MINED	<u>888</u>	<u>1,776</u>	<u>64,335</u>	<u>128,670</u>
TOTAL ORE MINED	<u>93,907</u>	<u>187,814</u>	<u>190,923</u>	<u>381,846</u>
TOTAL WASTE MINED	<u>175,833</u>	<u>351,666</u>	<u>538,133</u>	<u>1,076,267</u>
TOTAL MINED	<u>269,740</u>	<u>539,480</u>	<u>729,056</u>	<u>1,458,113</u>
GRADE ORE MINED	<u>AU</u>	<u>AG</u>	<u>AU</u>	<u>AG</u>
SUNDAY PIT ORE	<u>.037</u>	<u>---</u>	<u>.035</u>	<u>---</u>
DAKOTA PIT ORE	<u>.042</u>	<u>---</u>	<u>.043</u>	<u>---</u>
TOTAL ORE MINED	<u>.037</u>	<u>---</u>	<u>.035</u>	<u>---</u>

COMMENTS



## GILT EDGE MINE

## PLANT STATISTICS FOR THE MONTH OF SEPTEMBER, 1988

DESCRIPTION	MONTH	YTD
DRY TONS CRUSHED	181572.3	344329.1
TPD AVERAGE	8646.3	6496.8
OPERATING TIME CRUSHING HRS/%	353.0/70.1	675.4/61.5
DOWNTIME - CRUSHING HRS/%	151.0/29.9	423.1/38.5
AVAILABLE TIME CRUSHING (HRS)	504.0	1098.5
OPERATING TIME LEACHING HRS/%	80.5/93.6	80.5/93.6
DOWNTIME - LEACHING HRS/%	5.5/6.4	5.5/6.4
AVAILABLE TIME LEACHING	86.0	86.0
OPERATING TIME PRECIPITATION HRS/%	22.0/100	22.0/100
DOWNTIME - PRECIPITATION HRS/%	0/0	0/0
AVAILABLE TIME PRECIPITATION	22.0	22.0

ASSAYS	AU	AG	AU	AG
ORE TO LEACH PADS	0.0366	0.1436	0.0355	0.1583
PREGNANT SOLUTION	0.033	0.044	0.033	0.044
BARREN SOLUTION	0.017	0.019	0.017	0.019
TAILINGS FROM PAD	---	---	---	---

PRODUCTION	MONTH	YTD
DORE PRODUCED	0	0
% AU IN DORE	---	---
% AG IN DORE	---	---
OZ AU PRODUCED	0	0
OZ AG PRODUCED	0	0
ORE TO PADS (TONS)	210509.0	329262.0
TAILINGS FROM PADS	0	0

(plantstats)

(100488)

MINE STATISTICS COMPARED TO BUDGET  
SEPTEMBER, 1988

	MONTH			YEAR TO DATE		
	1988 BUDGET	ACTUAL	VARIANCE	1988 BUDGET	ACTUAL	VARIANCE
ORE MINED (TONS)	156,000	187,814	31,814	452,000	381,846	<70,154>
WASTE MINED (TONS)	242,950	351,666	108,716	1,015,400	1,076,267	60,867
TOTAL MINED (TONS)	398,950	539,480	140,530	1,467,400	1,458,113	<9,287>
GRADE ORE MINED (OZ/TON AU)	.035	.037	.002	.033	.035	.002
ORE CRUSHED (TONS)	156,000	181,572.3	25,572.3	351,000	344,329.1	<6670.9>
GRADE ORE CRUSHED (OZ/TON AU)	.035	.034	<.001>	.033	.035	.002
ORE TO PADS (TONS)	156,000	210,509	54,509	351,000	329,262	<21,738>
SPENT ORE F/PADS (TONS)	0	0	0	0	0	0
METAL PRODUCED (OZ)						
AU	2,000	0	<2,000>	2,200	0	<2,200>
AG	1,600	0	<1,600>	1,760	0	<1,760>

BROHM MINING CORPORATION  
GILT EDGE MINE  
MANPOWER SUMMARY  
SEPTEMBER 1988

DESCRIPTION =====	<u>SALARIED</u>		<u>HOURLY</u>		<u>TOTAL</u>	
	<u>Budget</u>	<u>Actual</u>	<u>Budget</u>	<u>Actual</u>	<u>Budget</u>	<u>Actual</u>
Engineering/Geology	5	5	0	0	5	5
Safety/Environmental	3	3	0	0	3	3
Processing	2	2	18	15	20	17
Maintenance	1	1	4	4	5	5
Laboratory	1	0	7	5	8	5
Administration	10	8	0	0	10	8
	=====	=====	=====	=====	=====	=====
TOTAL OXIDE	22	19	29	24	51	43
Sulphide Project	5	3	0	0	5	3
Sulphide Project Temps	0	0	8	6	8	6
	=====	=====	=====	=====	=====	=====
TOTAL SULPHIDE	5	3	8	6	13	9
GRAND TOTAL	27	22	37	30	64	52

<u>MONTH</u>	<u>TERMINATED</u>	<u>HIRED</u>	<u>NET CHANGE</u>
OXIDE PROJECT	1	1	0
SULPHIDE PROJECT	1	2	1
	=====	=====	=====
TOTAL	2	3	1



## Assay Summary For All 1988 Drilling Year To Date

Summary as of 9/30/88

Number of Completed Holes  $13 + 88 = 101$

**Total Footage**    17,105' + 83,770' = 100,875'

## Holes in Progress

Number of Holes with Complete Assays  $13 + 57 = 70$

Total Footage with Complete Assays    17,105' + 58,010' = 75,115'

[illegible]

Number of Holes with Partial Assays = 3

Total Footage with Complete Assays = 1200' (1100' pending in this category)

Average Grade over .02 opt 505' @ .038 (42% of this footage)

Total Footage with Assays = 76,315'

Average Grade over .02 opt = 29,605' (39% of footage) @ .049

Total Footage with Assays Pending for Holes Drilled through  
September = 24,560'

1988 ASSAYS (  $\geq$  .02 OPT )

R88-366 TD = 1385' (complete)

40 - 205	165' @ .069
220 - 225	5' @ .020
245 - 395	150' @ .031
410 - 625	215' @ .068
745 - 750	5' @ .024
845 - 850	5' @ .027
990 - 1000	10' @ .020

---

555' @ .056 (WAG)

R88-367 TD = 1500'

5 - 10	5' @ .025
70 - 90	20' @ .020
110 - 115	5' @ .025
125 - 130	5' @ .025
145 - 185	40' @ .025
200 - 370	170' @ .039
400 - 685	285' @ .054
700 - 720	20' @ .022
770 - 775	5' @ .035
795 - 805	10' @ .058
845 - 850	5' @ .030
930 - 935	5' @ .025
950 - 970	20' @ .021
1015 - 1080	65' @ .022
1100 - 1105	5' @ .020
1120 - 1315	195' @ .062
1335 - 1405	70' @ .029

---

930' @ .044 (WAG)

R88-368 TD = 1455'

230 - 235	5' @ .024
390 - 435	45' @ .051
455 - 505	50' @ .063
525 - 730	205' @ .077
750 - 925	175' @ .046
945 - 965	20' @ .022
1000 - 1095	95' @ .032
1110 - 1135	25' @ .023
1160 - 1250	90' @ .023
1335 - 1385	50' @ .039
1405 - 1455	50' @ .057

---

810' @ .050 (WAG)

Assay Report  
Page 2

R88-369      TD = 1320'

0 - 5	5' @ .020
125 - 130	5' @ .023
185 - 190	5' @ .034
260 - 350	90' @ .098
365 - 405	40' @ .040
420 - 705	285' @ .034
755 - 760	5' @ .024
765 - 770	5' @ .028
790 - 820	30' @ .073
835 - 845	10' @ .024
860 - 865	5' @ .021
915 - 925	10' @ .026
1020 - 1030	10' @ .021
1050 - 1060	10' @ .023
1080 - 1085	5' @ .021
1110 - 1115	5' @ .050
1220 - 1290	70' @ .022

---

595' @ .044 (WAG)

R88-370      TD = 1470'

170 - 285	115' @ .050
300 - 320	20' @ .079
335 - 390	55' @ .028
405 - 415	10' @ .026
430 - 465	35' @ .043
485 - 520	35' @ .048
660 - 685	25' @ .020
710 - 735	25' @ .025
760 - 810	50' @ .039
875 - 880	5' @ .020
910 - 1020	110' @ .038
1060 - 1115	55' @ .035
1135 - 1225	90' @ .060
1455 - 1460	5' @ .021

---

635' @ .043 (WAG)

Assay Report  
Page 3

R88-371      TD = 1320'

5 - 20	15' @ .023
335 - 340	5' @ .021
355 - 380	25' @ .029
395 - 450	55' @ .044
465 - 540	75' @ .144
610 - 625	15' @ .024
655 - 715	60' @ .028
755 - 855	100' @ .076
880 - 885	5' @ .021
890 - 895	5' @ .020
900 - 905	5' @ .021
920 - 925	5' @ .020
940 - 950	10' @ .042
990 - 995	5' @ .021
1015 - 1020	5' @ .027
1035 - 1110	75' @ .029
1130 - 1135	5' @ .024
1150 - 1240	90' @ .038
1260 - 1275	15' @ .059
1290 - 1305	15' @ .021

---

590' @ .054 (WAG)

R88-372      TD = 1055'

20 - 65	45' @ .023
80 - 95	15' @ .024
110 - 145	35' @ .024
165 - 175	10' @ .031
190 - 245	55' @ .026
265 - 290	25' @ .057
325 - 345	20' @ .051
395 - 455	60' @ .042
470 - 475	5' @ .026
490 - 495	5' @ .022
560 - 565	5' @ .055
735 - 740	5' @ .025
770 - 775	5' @ .034
785 - 800	15' @ .029
820 - 830	10' @ .042
1040 - 1055	15' @ .126

---

320' @ .039 (WAG)



Assay Report  
Page 4

R88-373      TD = 1360'

0 - 95	95' @ .050
110 - 205	95' @ .022
220 - 305	85' @ .021
345 - 515	170' @ .051
545 - 565	20' @ .021
660 - 665	5' @ .023
705 - 725	20' @ .021
795 - 815	20' @ .022
830 - 855	25' @ .053
890 - 930	40' @ .035
1000 - 1005	5' @ .028
1165 - 1180	15' @ .053
1195 - 1200	5' @ .020
1235 - 1240	5' @ .020
1255 - 1275	20' @ .021
1310 - 1330	20' @ .074

---

645' @ .038 (WAG)

R88-374      TD = 1305'

110 - 115	5' @ .035
315 - 320	5' @ .105
440 - 445	5' @ .105
505 - 520	15' @ .055
595 - 670	75' @ .044
705 - 710	5' @ .065
760 - 765	5' @ .020
780 - 785	5' @ .025
805 - 810	5' @ .035
875 - 880	5' @ .030
945 - 950	5' @ .035
965 - 1040	75' @ .069
1120 - 1125	5' @ .035
1150 - 1155	5' @ .025
1165 - 1170	5' @ .045
1260 - 1275	15' @ .125

---

240' @ .058 (WAG)

Assay Report  
Page 5

R88-375 TD = 1415'

60 - 85	25' @ .027
100 - 125	25' @ .033
425 - 630	205' @ .057
645 - 675	30' @ .024
695 - 700	5' @ .020
705 - 710	5' @ .035
720 - 725	5' @ .025
770 - 775	5' @ .035
795 - 800	5' @ .055
820 - 825	5' @ .025
865 - 880	15' @ .035
900 - 910	10' @ .032
920 - 925	5' @ .030
930 - 935	5' @ .025
945 - 950	5' @ .025
980 - 1000	20' @ .038
1045 - 1055	10' @ .030
1110 - 1125	15' @ .095
1145 - 1160	15' @ .032
1205 - 1210	5' @ .035

---

420' @ .046 (WAG)

R88-376 TD = 1005'

5 - 10	5' @ .020
75 - 190	115' @ .033
210 - 215	5' @ .035
320 - 370	50' @ .036
385 - 525	140' @ .022
580 - 595	15' @ .067
700 - 810	110' @ .042
825 - 860	35' @ .030
880 - 885	5' @ .030
900 - 910	10' @ .028
965 - 970	5' @ .025
980 - 985	5' @ .025

---

500' @ .033 (WAG)

Assay Report  
Page 6

R88-377 TD = 1305'

5 - 20	15' @ .028
35 - 60	25' @ .022
80 - 275	195' @ .049
290 - 365	75' @ .017
445 - 450	5' @ .026
475 - 620	145' @ .100
635 - 700	65' @ .036
720 - 725	5' @ .021
745 - 770	25' @ .030
835 - 850	15' @ .022
900 - 905	5' @ .022
925 - 930	5' @ .027

---

580' @ .052 (WAG)

R88-378 TD = 1210'

280 - 320	40' @ .024
335 - 340	5' @ .026
345 - 350	5' @ .020
365 - 390	25' @ .026
565 - 630	65' @ .051
645 - 650	5' @ .027
685 - 835	150' @ .037
860 - 1060	200' @ .044
1080 - 1110	30' @ .024
1125 - 1150	25' @ .023
1185 - 1190	5' @ .027

---

555' @ .038 (WAG)

R88-379 TD = 800'

135 - 140	5' @ .053 (complete)
355 - 360	5' @ .024
625 - 635	10' @ .035
685 - 695	10' @ .029

---

30' @ .034 (WAG)

Assay Report  
Page 7

R88-380 TD = 400' (complete)

145 - 155	10' @ .080
210 - 215	5' @ .028
340 - 350	10' @ .025

---

25' @ .048 (WAG)

R88-381 TD = 830'

40 - 45	5' @ .028
60 - 70	10' @ .044
85 - 125	40' @ .024
140 - 150	10' @ .023
400 - 430	30' @ .023
480 - 495	15' @ .024
570 - 575	5' @ .037
760 - 765	5' @ .053
800 - 805	5' @ .043

---

125' @ .028 (WAG)

R88-382 TD = 1160'

175 - 185	10' @ .027
200 - 205	5' @ .026
220 - 235	15' @ .021
275 - 280	5' @ .021
295 - 300	5' @ .026
355 - 360	5' @ .024
410 - 415	5' @ .035
495 - 500	5' @ .022
530 - 535	5' @ .022
565 - 585	20' @ .036
655 - 670	15' @ .026
680 - 685	5' @ .021
715 - 720	5' @ .048
735 - 740	5' @ .036
760 - 775	15' @ .043
790 - 795	5' @ .034
870 - 880	10' @ .035
915 - 940	25' @ .051
955 - 980	25' @ .037
1155 - 1160	5' @ .022

---

195' @ .034 (WAG)

Assay Report  
Page 8

R88-383 TD = 1380' (complete)

0 - 125	125' @ .081
145 - 160	15' @ .021
525 - 535	10' @ .050
625 - 630	5' @ .020
645 - 665	20' @ .036
770 - 775	5' @ .065
965 - 970	5' @ .028
1010 - 1020	10' @ .061
1095 - 1105	10' @ .026
1130 - 1135	5' @ .027
1190 - 1195	5' @ .055
1210 - 1235	25' @ .031
1255 - 1280	25' @ .020
1310 - 1315	5' @ .027
1350 - 1370	20' @ .030

---

290' @ .054 (WAG)

R88-384 TD = 600'

5 - 35	30' @ .034
50 - 105	55' @ .031
170 - 175	5' @ .021
305 - 315	10' @ .029
340 - 405	65' @ .039
510 - 515	5' @ .022

---

170' @ .034 (WAG)

R88-385 TD = 1000'

5 - 485	480' @ .049
520 - 530	10' @ .026
585 - 590	5' @ .020
665 - 670	5' @ .027
695 - 700	5' @ .023
705 - 725	20' @ .029
745 - 775	30' @ .037
835 - 850	15' @ .024
890 - 910	20' @ .030
930 - 1000	70' @ .104

---

660' @ .052

Assay Report  
Page 9

R88-386 TD = 925'

0 - 65	65' @ .029
85 - 600	515' @ .053
630 - 640	10' @ .022
655 - 740	85' @ .034
765 - 770	5' @ .034
780 - 785	5' @ .027
790 - 795	5' @ .022
825 - 840	15' @ .025

---

705' @ .047 (WAG)

R88-387 TD = 1365'

150 - 165	15' @ .093
245 - 250	5' @ .030
360 - 365	5' @ .030
375 - 390	15' @ .061
1005 - 1040	35' @ .045
1105 - 1130	25' @ .041
1145 - 1170	25' @ .025
1230 - 1235	5' @ .020
1260 - 1265	5' @ .057
1355 - 1360	5' @ .022

---

140' @ .045

R88-388 TD = 1350'

0 - 45	45' @ .046
80 - 150	70' @ .075
165 - 265	100' @ .059
320 - 335	15' @ .036
400 - 435	35' @ .042
535 - 545	10' @ .036
725 - 740	15' @ .029
825 - 840	15' @ .031
850 - 855	5' @ .034
885 - 890	5' @ .048
915 - 920	5' @ .027
1015 - 1035	20' @ .036
1060 - 1065	5' @ .028
1105 - 1140	35' @ .084
1220 - 1245	25' @ .051
1260 - 1295	35' @ .047
1315 - 1320	5' @ .032
1345 - 1350	5' @ .042

---

450' @ .054 (WAG)

Assay Report  
Page 10

R88-389 TD = 760'

0 - 40	40' @ .025
130 - 355	225' @ .033
370 - 525	155' @ .049
580 - 595	15' @ .031
620 - 635	15' @ .050
730 - 755	25' @ .020
	<hr/>
	475' @ .037

R88-390 TD = 1275'

0 - 5	5' @ .060
50 - 55	5' @ .039
85 - 90	5' @ .022
315 - 320	5' @ .025
350 - 550	200' @ .062
565 - 650	85' @ .025
680 - 685	5' @ .028
875 - 880	5' @ .020
885 - 890	5' @ .026
925 - 930	5' @ .113
955 - 965	10' @ .030
985 - 990	5' @ .021
1065 - 1070	5' @ .025
1100 - 1140	40' @ .026
1160 - 1180	20' @ .023
1230 - 1250	20' @ .033

---

425' @ .044 (WAG)

R88-391 TD = 1145' (complete)

0 - 20	20' @ .045
55 - 395	340' @ .043
430 - 475	45' @ .020
490 - 695	205' @ .040
1065 - 1080	15' @ .028
1095 - 1140	45' @ .023

---

670' @ .039 (WAG)

Assay Report  
Page 11

R88-392 TD = 1325'

115 - 155	40' @ .029
375 - 730	355' @ .067
760 - 855	95' @ .059
875 - 985	110' @ .077
1000 - 1010	10' @ .039
1025 - 1030	5' @ .022
1060 - 1065	5' @ .020
1085 - 1110	25' @ .024
1155 - 1160	5' @ .020
1200 - 1205	5' @ .030
1230 - 1245	15' @ .030
1320 - 1325	5' @ .052 TD

---

675' @ .061 (WAG)

R88-393 TD = 1230'

0 - 60	65' @ .037
60 - 95	MINE WORKINGS
95 - 115	20' @ .126
115 - 125	MINE WORKINGS
125 - 245	120' @ .081
245 - 255	MINE WORKINGS
255 - 300	45' @ .121
320 - 465	145' @ .071
545 - 570	25' @ .044
600 - 705	105' @ .044
735 - 930	195' @ .060
1025 - 1035	10' @ .027

---

730' @ .066 (WAG)

R88-394 TD = 1165'

75 - 150	75' @ .037
165 - 175	10' @ .034
195 - 200	5' @ .136
235 - 315	80' @ .035
330 - 510	180' @ .025
605 - 615	10' @ .041
645 - 780	135' @ .037
795 - 825	30' @ .098
840 - 900	60' @ .050
925 - 1080	155' @ .023

---

740' @ .035 (WAG)



Assay Report  
Page 12

R88-395 TD = 715' (complete)

0 - 160	160' @ .034
175 - 425	250' @ .033
445 - 450	5' @ .056
465 - 475	10' @ .041
495 - 500	5' @ .023
510 - 515	5' @ .021

---

435' @ .034 (WAG)

R88-396 TD = 725' (complete)

5 - 25	20' @ .033
45 - 50	5' @ .021
115 - 120	5' @ .026
140 - 150	10' @ .020
165 - 205	40' @ .030
220 - 225	5' @ .055
260 - 315	55' @ .031
330 - 335	5' @ .022
355 - 575	220' @ .065
590 - 600	10' @ .037
700 - 705	5' @ .023

---

380' @ .050

R88-397 TD = 1125'

90 - 105	15' @ .023
125 - 200	75' @ .033
215 - 270	55' @ .032
285 - 330	45' @ .030
355 - 390	35' @ .024
405 - 410	5' @ .021
435 - 450	15' @ .021
470 - 500	30' @ .036
575 - 595	20' @ .048
615 - 620	5' @ .036
635 - 645	10' @ .037
685 - 690	5' @ .020
725 - 770	45' @ .030
785 - 790	5' @ .021
805 - 850	45' @ .035
905 - 990	85' @ .031
1005 - 1020	15' @ .023
1035 - 1095	60' @ .023
1110 - 1125	15' @ .025

---

585' @ .030 (WAG)

Assay Results  
Page 13

R88-398 TD = 1200'

0 - 25	25' @ .037
40 - 50	10' @ .025
65 - 185	120' @ .036
200 - 365	165' @ .033
400 - 500	100' @ .101
520 - 565	45' @ .045
610 - 615	5' @ .024
650 - 665	15' @ .058
685 - 720	35' @ .027
745 - 750	5' @ .060
775 - 780	5' @ .055
865 - 870	5' @ .028
885 - 895	10' @ .049
925 - 935	10' @ .034
1045 - 1050	5' @ .021
1090 - 1100	10' @ .051
1155 - 1160	5' @ .020

---

575' @ .047 (WAG)

R88-399 TD = 1185'

15 - 25	10' @ .034
45 - 130	85' @ .034
155 - 490	335' @ .093
535 - 560	25' @ .037
580 - 655	75' @ .056
690 - 700	10' @ .032
730 - 735	5' @ .024
885 - 895	10' @ .026
970 - 975	5' @ .029
1050 - 1070	20' @ .029
1160 - 1185	25' @ .459

---

605' @ .087 (WAG)

Assay Results  
Page 14

R88-400 TD = 1305'

10 - 35	25' @ .031
275 - 280	5' @ .050
395 - 400	5' @ .029
420 - 435	15' @ .021
600 - 770	170' @ .069
805 - 810	5' @ .027
850 - 855	5' @ .020
910 - 915	5' @ .033
925 - 930	5' @ .027
1065 - 1070	5' @ .020
1135 - 1145	10' @ .050

---

255' @ .056 (WAG)

R88-401 TD = 1040'

(quartz trachyte stock)

65 - 70	5' @ .047
115 - 150	35' @ .037
245 - 250	5' @ .032
855 - 860	5' @ .032

---

50' @ .037 (WAG)

R88-402 TD = 1330'

5 - 25	20' @ .072
40 - 50	10' @ .028
75 - 280	205' @ .061
305 - 310	5' @ .020
325 - 330	5' @ .022
380 - 425	45' @ .164
585 - 805	220' @ .122
860 - 870	10' @ .029
890 - 905	15' @ .042

---

535' @ .093 (WAG)

Assay Results  
Page 15

R88-403 TD = 790'

0 - 10	10' @ .026
10 - 50	(NO RETURNS)
75 - 90	15' @ .055
125 - 150	25' @ .020
205 - 290	85' @ .038
335 - 340	5' @ .026
345 - 350	5' @ .022
400 - 500	100' @ .048
690 - 715	25' @ .036
730 - 760	30' @ .183

---

300' @ .054

R88-404 TD = 1450'

45 - 60	15' @ .131
80 - 110	30' @ .050
135 - 165	30' @ .090
220 - 225	5' @ .150
520 - 550	30' @ .027
615 - 620	5' @ .026
675 - 755	80' @ .035
825 - 835	10' @ .026
875 - 1150	275' @ .143
1165 - 1340	175' @ .036
1360 - 1445	85' @ .036 (INC. ORE ZONE)

---

740' @ .081 (WAG)

(quartz trachyte stock)

R88-405 TD = 1125'

40 - 100	60' @ .055
115 - 120	5' @ .031
135 - 170	35' @ .042
315 - 320	5' @ .021
680 - 685	5' @ .020
755 - 760	5' @ .028
775 - 810	35' @ .031
830 - 835	5' @ .026
855 - 860	5' @ .023
875 - 885	10' @ .026
970 - 975	5' @ .036
1005 - 1010	5' @ .023
1050 - 1055	5' @ .038
1085 - 1095	10' @ .037

---

195' @ .040 (WAG)

Assay Results  
Page 16

R88-406 TD = 700'

35 - 40 5' @ .059

---

5' @ .059

R88-407 TD = 540'

325 - 330 5' @ .026  
425 - 430 5' @ .046  
455 - 470 15' @ .033  
490 - 495 5' @ .021  
520 - 540 20' @ .096 (INC. ORE ZONE)

---

50' @ .058 (WAG)

R88-408 TD = 1315'

85 - 90 5' @ .044  
130 - 135 5' @ .037  
285 - 305 20' @ .024  
330 - 350 20' @ .020  
375 - 395 20' @ .060  
410 - 450 40' @ .024  
470 - 485 15' @ .024  
500 - 590 90' @ .028  
675 - 830 155' @ .026  
855 - 870 15' @ .073  
965 - 975 10' @ .084  
1005 - 1015 10' @ .028  
1045 - 1065 20' @ .028  
1085 - 1095 10' @ .054  
1115 - 1155 40' @ .028  
1170 - 1205 30' @ .030  
1220 - 1225 5' @ .020  
1265 - 1270 5' @ .022  
1285 - 1315 30' @ .025 (INC. ORE ZONE)

---

545' @ .030 (WAG)

Assay Results  
Page 17

R88-409      TD = 1400'

105 - 110	5'	@ .032
140 - 175	35'	@ .031
225 - 235	10'	@ .024
315 - 360	45'	@ .043
380 - 520	140'	@ .071
535 - 785	250'	@ .048
800 - 880	80'	@ .044
925 - 930	5'	@ .066
960 - 1070	110'	@ .075
1125 - 1130	5'	@ .039
1150 - 1160	10'	@ .020
1180 - 1185	5'	@ .035
1205 - 1210	5'	@ .034
1265 - 1270	5'	@ .026

---

710' @ .054 (WAG)

R88-410      TD = 720'

100 - 105	5'	@ .022
145 - 150	5'	@ .054
285 - 290	5'	@ .042
495 - 510	15'	@ .022
545 - 550	5'	@ .024
595 - 610	15'	@ .040
635 - 640	5'	@ .028

---

55' @ .032 (WAG)

R88-411      TD = 1065'

240 - 250	10'	@ .020
330 - 340	10'	@ .032
375 - 485	110'	@ .034
655 - 665	10'	@ .029
700 - 705	5'	@ .021
810 - 820	10'	@ .027
870 - 880	10'	@ .028

---

165' @ .032 (WAG)

Assay Results  
Page 18

R88-412 TD = 1260'

50 - 60	10' @ .026
85 - 150	65' @ .025
170 - 175	5' @ .063
255 - 260	5' @ .026
275 - 280	5' @ .023
295 - 380	85' @ .039
450 - 455	5' @ .041
470 - 475	5' @ .036
495 - 535	50' @ .027
555 - 615	60' @ .024
630 - 640	10' @ .032
655 - 680	25' @ .024
790 - 810	20' @ .089
925 - 950	25' @ .067
1020 - 1030	10' @ .033
1045 - 1075	30' @ .023
1240 - 1245	5' @ .048

---

410' @ .036 (WAG)

R88-413 TD = 1125'

0 - 115	115' @ .045
130 - 345	215' @ .083
440 - 480	40' @ .023
505 - 545	40' @ .039
625 - 680	55' @ .029
730 - 755	25' @ .042
780 - 785	5' @ .023
840 - 895	55' @ .053
910 - 935	25' @ .025
960 - 995	35' @ .068
1090 - 1095	5' @ .027

---

615' @ .056 (WAG)

R88-414 TD = 1015'

0 - 5	5' @ .023
195 - 205	10' @ .028
260 - 265	5' @ .023
300 - 305	5' @ .055
575 - 590	15' @ .031
655 - 665	10' @ .028
910 - 915	5' @ .034
945 - 950	5' @ .047

---

60' @ .032 (WAG)

Assay Results  
Page 19

R88-415      TD = 1120'

455 - 465	10'	@ .034
510 - 515	5'	@ .034
530 - 535	5'	@ .020
550 - 560	10'	@ .021
615 - 1060	445'	@ .035
1085 - 1095	10'	@ .022

---

485' @ .034 (WAG)

R88-416      TD = 1390'

0 - 40	40'	@ .023
60 - 320	260'	@ .039
335 - 355	20'	@ .020
395 - 405	10'	@ .023
425 - 505	80'	@ .024
535 - 540	5'	@ .024
565 - 595	30'	@ .033
625 - 630	5'	@ .023
705 - 795	90'	@ .035
900 - 935	35'	@ .031
960 - 970	10'	@ .029
1005 - 1010	5'	@ .021
1060 - 1065	5'	@ .046
1085 - 1095	10'	@ .042
1135 - 1150	15'	@ .025
1170 - 1185	15'	@ .020
1215 - 1225	10'	@ .024

---

645' @ .033 (WAG)



Assay Results  
Page 20

R88-417 TD = 1350'

0 - 10	10'	@ .023
35 - 45	10'	@ .024
395 - 415	20'	@ .027
430 - 455	25'	@ .041
575 - 580	5'	@ .028
610 - 615	5'	@ .031
630 - 640	10'	@ .044
705 - 750	45'	@ .021
765 - 775	10'	@ .036
815 - 845	30'	@ .021
865 - 890	25'	@ .024
905 - 910	5'	@ .020
920 - 925	5'	@ .024
935 - 940	5'	@ .022
945 - 950	5'	@ .026
960 - 980	20'	@ .023
1005 - 1015	10'	@ .030
1075 - 1080	5'	@ .020
1105 - 1145	40'	@ .048
1170 - 1185	15'	@ .023
1200 - 1350	150'	@ .064 (TD)

---

455' @ .041 (WAG)

R88-418 TD = 1000'

465 - 475	10'	@ .056
565 - 570	5'	@ .020
685 - 740	55'	@ .056
980 - 995	15'	@ .021

---

85' @ .048 (WAG)

R88-419 TD = 800' (Quartz Trachyte Stock)

510 - 515	5'	@ .023
600 - 605	5'	@ .022

---

10' @ .022 (WAG)

Assay Results  
Page 21

R88-420 TD = 1180'

125 - 460	335' @ .073
510 - 520	10' @ .026
680 - 770	90' @ .062
795 - 800	5' @ .020
810 - 815	5' @ .021
830 - 835	5' @ .038
855 - 860	5' @ .023
875 - 880	5' @ .023
925 - 1005	80' @ .030
1060 - 1065	5' @ .026
1160 - 1175	15' @ .022

---

560' @ .060 (WAG)

R88-421 TD = 85' (Hole abandoned - collapsed casing)

R88-422 TD = 845'

150 - 235	85' @ .033
250 - 285	35' @ .030
300 - 310	10' @ .028
345 - 480	135' @ .071
500 - 775	275' @ .051
790 - 830	40' @ .037

---

580' @ .050 (WAG)

R88-423 TD = 880'

5 - 30	25' @ .050
55 - 75	20' @ .027
90 - 125	35' @ .037
230 - 700	470' @ .062
745 - 880	135' @ .028

---

685' @ .053 (WAG)

Assay Results  
Page 22

R88-424 TD = 1460'

100 - 120	20' @ .026
185 - 200	15' @ .028
230 - 260	30' @ .041
320 - 495	175' @ .088
795 - 845	50' @ .041
860 - 905	45' @ .026
920 - 930	10' @ .023
1005 - 1010	5' @ .020
1035 - 1040	5' @ .020
1075 - 1095	20' @ .022
1120 - 1145	25' @ .062
1160 - 1230	70' @ .030
1280 - 1325	45' @ .031
1355 - 1365	10' @ .031
1385 - 1430	45' @ .030

---

570' @ .050 (WAG)

R88-425 TD = 905'

5 - 20	15' @ .050
150 - 155	5' @ .031
175 - 180	5' @ .028
210 - 220	10' @ .036
245 - 250	5' @ .037
270 - 275	5' @ .020
290 - 315	25' @ .020
330 - 460	130' @ .049
515 - 545	30' @ .021
580 - 610	30' @ .058
625 - 670	45' @ .058
695 - 700	5' @ .030
720 - 730	10' @ .036
770 - 780	10' @ .022
835 - 895	60' @ .026

---

360' @ .044 (WAG)

Assay Results  
Page 23

R88-426 TD = 820'

90 - 95	5' @ .032
135 - 160	25' @ .053
175 - 180	5' @ .033
320 - 325	5' @ .020
440 - 445	5' @ .040
535 - 540	5' @ .028
575 - 580	5' @ .026
660 - 690	30' @ .027
705 - 715	10' @ .026
780 - 810	30' @ .026

---

125' @ .032 (WAG)

R88- 427 TD = 1225'

0 - 890	890' @ .062
905 - 1140	235' @ .035
1155 - 1160	5' @ .034
1175 - 1225	50' @ .022 (TD)

---

1180' @ .055 (WAG)

R88-428 TD = 995'

150 - 160	10' @ .034
195 - 215	20' @ .060
360 - 365	5' @ .028
860 - 880	20' @ .032
900 - 910	10' @ .028

---

65' @ .040 (WAG)

R88-429 TD = 1190'

0 - 255	255' @ .039
270 - 525	255' @ .036
560 - 570	10' @ .042
645 - 980	335' @ .034
995 - 1040	45' @ .022
1055 - 1060	5' @ .021
1090 - 1140	50' @ .023

---

955' @ .035 (WAG)

Assay Results  
Page 24

R88-430 TD = 600'

205 - 255	50' @ .221
270 - 275	5' @ .025

---

55' @ .203 (WAG)

R88-431 TD = 1200'

0 - 20	20' @ .040
40 - 75	35' @ .025
100 - 125	25' @ .026
185 - 215	30' @ .089
245 - 250	5' @ .036
295 - 315	20' @ .029
360 - 365	5' @ .023
390 - 405	15' @ .027
440 - 445	5' @ .020
460 - 675	215' @ .033
705 - 715	10' @ .048
740 - 745	5' @ .020

---

390' @ .036

R88-432 TD = 745'

35 - 90	55' @ .048
575 - 625	50' @ .036
730 - 745	15' @ .026

---

120' @ .040 (WAG)

R88-433 TD = 680'

5 - 125	120' @ .115
140 - 250	110' @ .042
270 - 325	55' @ .047
360 - 620	260' @ .042
635 - 640	5' @ .059

---

550' @ .058 (WAG)

Assay Results  
Page 25

R88-434 TD = 700'

65 - 80	15' @ .073 (INC. ORE ZONE)
85 - 385	NO ASSAYS YET
390 - 430	40' @ .019
450 - 525	75' @ .032
545 - 605	60' @ .038
625 - 685	60' @ .022

---

250' @ .031 (WAG)

R88-435 TD = 580'

15 - 45	30' @ .045 (INC. ORE ZONE)
50 - 350	NO ASSAYS YET
355 - 565	210' @ .045 (INC. ORE ZONE)

---

240' @ .045 (WAG)

R88-436 TD = 1020'

320 - 560	NO ASSAYS YET
630 - 635	5' @ .032
650 - 655	5' @ .048
705 - 710	5' @ .032
740 - 1000	NO ASSAYS YET

---

15' @ .037 (WAG)

R88-437 TD = 700'

55 - 65	10' @ .050
295 - 305	10' @ .027
610 - 630	20' @ .034
645 - 655	10' @ .024

---

50' @ .034 (WAG)

R88-446 TD = 1000'

145 - 150	5' @ .035
335 - 340	5' @ .051
425 - 430	5' @ .020
815 - 820	5' @ .022
900 - 905	5' @ .033

---

25' @ .032

# BROHM MINING CORP.

DATE: OCTOBER 3, 1988  
TO: MINVEN GOLD CORPORATION - LAKEWOOD, COLORADO  
FOR: JAMES A. ANDERSON  
SUBJECT: GILT EDGE PROJECT - MONTHLY FLASH REPORT - SEPT, 1988

- \* Continued mining activities.
- \* Continued crushing activities.
- \* Continued loading ore onto leach pads.
- \* Completed most all construction activities other than numerous punch list items.
- \* Placed laboratory into operation and commenced in house assaying.
- \* Completed new surge pond liner installation.
- \* Received state approval to commence cyanide application.
- \* Commenced leaching of first ore September 27th.
- \* Commenced process plant operations September 30th.
- \* First gold should be produced early in October.
- \* Continued sulphide project development.
- \* Minproc completed sulphide project prefeasibility study.
- \* Continued sulphide project development drilling program with extremely encouraging results.
- \* Prepared new sulphide project reserve estimate utilizing new drill hole information up through and including hole #430.
- \* Attended county commissioners meeting and provided them with Gilt Edge Project update.
- \* Initiated 1989 budget preparation.
- \* Finalizing insurance and bullion shipment procedures.
- \* Finalizing refinery security system installation.

South Dakota Office: P.O. Box 485, Deadwood, South Dakota 57732  
Telephone: (605) 578-2107 Telecopier: (605) 578-1709

Head Office: #1660-999 West Hastings Street, Vancouver, B.C. V6C 2W2  
Telephone: (604) 662-8383 Telex: 04-51472 PVC VCR Telecopier: (604) 684-1329

James A. Anderson  
October 3, 1988  
Page 2

- \* Hired one new employee this month - Bill Moths (surveyor).
- \* Several site tours were given to people from Wright Engineers, Hecla and to members of the Board of Minerals and Environment.
- \* Continued SDMA campaign to defeat the anti-mining initiatives.

  
\_\_\_\_\_  
Rex L. Outzen

RLO/dvl



# BROHM MINING CORP.

DATE: SEPTEMBER 12, 1988  
TO: MINVEN GOLD CORPORATION - LAKEWOOD, COLORADO  
FOR: JAMES A. ANDERSON  
FROM: REX L. OUTZEN  
SUBJECT: MONTHLY REPORT - GILT EDGE PROJECT - AUGUST, 1988

## SUMMARY

Problems associated with the completion of the surge pond liner system continued in August. In order to place the project into operation, it was decided early in September that an additional liner be installed in the surge pond. This work is presently in progress and should be completed before the end of September. This has delayed gold production until early October.

Other than the surge pond, all project construction is complete with the exception of minor punch list type items. Mining, crushing and leach pad loading operations proceeded well. The sulphide project development drilling program continued with encouraging results.

## MINING

Mining activities operated well in August. A total of 93,012 tons of ore and 316,250 tons of waste were mined from the Sunday Pit during the month. Due to the delay in the project start up, mining activities focused mainly on waste removal. The contractor is moving an average of 18,000 tons of material per day and the operations continue to improve and become more efficient with each month of operation. Mine statistics for the month of August are attached.

## CRUSHING

The crushing plant crushed a total of 147,135.7 dry tons of ore during August for an average of 508 dry tons per operating hour. Overall the crushing system is operating very well and meeting planned throughput rates even though operating time is below that planned. The downtime is due to minor mechanical problems which are presently being corrected and should improve availability during September. Crushing plant statistics for August are attached.

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### LEACHING

Leach pad construction was completed in August and loading of ore onto the leach pad commenced August 9th. At the end of the month cells #6 and #7 had been loaded with 52,811 tons and 65,942 tons respectively. Leach pad loading operations continue and by the time leaching commences, a total of four cells should be loaded completely. Leaching of the four heaps will commence as soon as the surge pond liner is complete and is anticipated around the end of September.

### CONSTRUCTION

Construction activities continued. The main activities during the month included minor crushing plant modifications and repairs, completion of the leach pad construction, completion of all mechanical and piping work including solution distribution and solution collection piping, construction of the administration building and completion of the pond liners in the diatomaceous earth pond and the neutralization pond. Overall construction is 99% complete with the surge pond and only minor fencing, electrical, instrumentation, HVAC and punch list type work remaining.

Plant start up was scheduled for late August but has been delayed due to the inability of the liner contractor to successfully complete the surge pond liner. A decision was made early in September to install an additional liner in the surge pond. Once installed, cyanide can be introduced to the system, leaching will commence and plant start up and commissioning is anticipated for late September.

### STAFFING

Mike Perovanovic (Purchasing Agent) and four hourly employees were hired during the month of August. The monthly manpower summary for August is attached.

### PROPERTY STATUS

Property acquisition continued during August. Negotiations were finalized with Dickmeyer (10 acres) and Limbo (420 acres) during the month. Negotiations continue with Gaffrey and should be finalized in September.

### ADMINISTRATION

The site administration office was completed and all personnel were moved from Deadwood to the site office during the month. Some problems were encountered with telephones and computers, but by the end of August most everything was operating well.

New production cost reports were generated in August and will have finishing touches put on them in September.

Along with all the routine accounting work being done, items such as spare parts and reagent inventories and a final asset listing with installed costs are presently being worked on.

Pete Goodwin continues to work with the SDMA anti initiative campaign and spoke in the eastern part of the state during August.

#### ENVIRONMENTAL/PERMITTING

All major permits have been obtained for the Gilt Edge Project. However, John Wilbanks continues to work with the state and county regulatory agencies in order to finalize minor technical revisions, insure permit compliance and perform construction quality assurance. Upon completion of the surge pond liner, DWNR approval will be required prior to introducing cyanide to the system. Air and water quality monitoring and sampling continue.

#### EXPLORATION AND GEOLOGY

Sulphide project development drilling continued smoothly during August. A total 26 drill holes (R88:406-427 and 429-432) were completed in August for 25,970 feet. Although sample analyses is very slow, assays are continuing to trickle in with very encouraging results. An updated drill hole map and assay summary are enclosed. Cross sections and the computer data base continue to be updated with new drilling information as it becomes available.

#### SULPHIDE PROJECT

Sulphide project development work continued in August. Minproc completed a draft plan of operations and the draft prefeasibility study. Both documents are presently being revised for final publication.

Baseline data gathering continued and EnecoTech is in the process of preparing their final report.

Detailed archaeological field surveys were initiated and will be completed over the next three months.

Waste rock and soil attenuation studies continued.

Development drilling is proceeding well. All new geologic and assay data are being added to the present data base as soon as it is received. This will allow a new reserve estimate to be made later in September.

Preparations are being made to mobilize a core drilling contractor in order to obtain metallurgical samples. A new scope of metallurgical testwork is being prepared.

A request for proposal for EPCM is presently being prepared and will be sent out to several qualified engineering firms in the near future.

#### GENERAL

The SDMA continues to campaign against the anti mining initiatives. Letter writing, TV and radio advertising, the speakers bureau and booths at most all state and county fairs have been proceeding well. Ex-Governor Bill Janklow has joined the campaign effort as the SDMA General Counsel. Mr. Janklow is speaking daily at various organizations around the state. The next poll will be conducted in September.

Numerous tours of the Gilt Edge Project were provided to people from the USFS, Chase Manhattan Bank, Northwestern Metals Company and Dayton Resources during August.

#### SEPTEMBER ACTIVITIES

- \* Finalize construction of heap leach project.
- \* Complete surge pond hydrostatic testing and obtain DWNR approval to operate.
- \* Commence mixing cyanide and initiate ore leaching activities.
- \* Commence start up of processing plant.
- \* Commence gold production.
- \* Continue staff training.
- \* Order all necessary spare parts and operating supplies.
- \* Set up formal, organized warehouse system.
- \* Perform physical inventory of all assets, install equipment tags and prepare formal asset listing with installed cost.
- \* Initiate preparation of 1989 operating budget.
- \* Finalize all arrangements for shipping, insurance and refining of precious metals.
- \* Continue SDMA efforts to assist in defeating the anti mining initiatives.
- \* Continue all phases of sulphide project development.

Attached please find the monthly mine and plant statistics, the monthly manpower summary report, monthly statistics compared to budget and an updated drill hole map and assay summary.

  
\_\_\_\_\_  
Rex L. Outzen

RLO/dvl

enc:

cc: J. Barron  
D. Blakeman  
P. Goodwin  
G. Ireland  
D. Langford  
D. Layman  
M. Neumann  
C. Seward  
D. Stewart  
J. Wilbanks

## GILT EDGE MINE

## MINE STATISTICS FOR THE MONTH OF AUGUST, 1988

DESCRIPTION	MONTH		YEAR TO DATE	
	CU YDS	TONS	CU YDS	TONS
SUNDAY PIT ORE	<u>46,506</u>	<u>93,012</u>	<u>95,521</u>	<u>191,042</u>
SUNDAY PIT WASTE	<u>158,125</u>	<u>316,250</u>	<u>300,348</u>	<u>600,697</u>
TOTAL SUNDAY PIT MINED	<u>204,631</u>	<u>409,262</u>	<u>395,869</u>	<u>791,739</u>
DAKOTA PIT ORE	<u>0</u>	<u>0</u>	<u>1,495</u>	<u>2,990</u>
DAKOTA PIT WASTE	<u>0</u>	<u>0</u>	<u>61,952</u>	<u>123,904</u>
TOTAL DAKOTA PIT MINED	<u>0</u>	<u>0</u>	<u>63,447</u>	<u>126,894</u>
TOTAL ORE MINED	<u>46,506</u>	<u>93,012</u>	<u>97,016</u>	<u>194,032</u>
TOTAL WASTE MINED	<u>158,125</u>	<u>316,250</u>	<u>362,300</u>	<u>724,601</u>
TOTAL MINED	<u>204,631</u>	<u>409,262</u>	<u>459,316</u>	<u>918,633</u>
GRADE ORE MINED	<u>AU</u>	<u>AG</u>	<u>AU</u>	<u>AG</u>
SUNDAY PIT ORE	<u>.031</u>	<u>---</u>	<u>.033</u>	<u>---</u>
DAKOTA PIT ORE	<u>---</u>	<u>---</u>	<u>.043</u>	<u>---</u>
TOTAL ORE MINED	<u>.031</u>	<u>---</u>	<u>.033</u>	<u>---</u>

COMMENTS

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## GILT EDGE MINE

## PLANT STATISTICS FOR THE MONTH OF AUGUST, 1988

DESCRIPTION	MONTH	YTD
DRY TONS CRUSHED	147135.7	162756.8
TPD AVERAGE	6130.7	5086.2
OPERATING TIME CRUSHING HRS/%	289.4/54.0	322.4/54.2
DOWNTIME - CRUSHING HRS/%	246.1/46.0	272.1/45.8
AVAILABLE TIME CRUSHING (HRS)	535.5	594.5
OPERATING TIME LEACHING HRS/%	0/0	0/0
DOWNTIME - LEACHING HRS/%	---	---
OPERATING TIME PRECIPITATION HRS/%	0/0	0/0
DOWNTIME - PRECIPITATION HRS/%	---	---
AVAILABLE TIME	0	0

ASSAYS	AU	AG	AU	AG
ORE TO LEACH PADS	.034	.18	.034	.18
PREGNANT SOLUTION	---	---	---	---
BARREN SOLUTION	---	---	---	---
TAILINGS FROM PAD	---	---	---	---

PRODUCTION	MONTH	YTD
CALCULATED METAL PRODUCTION	0	0
DORE PRODUCED	0	0
% AU IN DORE	---	---
% AG IN DORE	---	---
OZ AU PRODUCED	0	0
OZ AG PRODUCED	0	0
ORE TO PADS (HEAPS #1 & #2)	118753.0	118753.0
TAILINGS FROM PADS	0	0

# MINE STATISTICS COMPARED TO BUDGET

AUGUST, 1988

	MONTH			YEAR TO DATE		
	<u>1988 Budget</u>	<u>Actual</u>	<u>Variance</u>	<u>1988 Budget</u>	<u>Actual</u>	<u>Variance</u>
ORE MINED (tons)	156,000	93,012	<62,988>	296,000	194,032	<101,968>
WASTE MINED (tons)	233,920	316,250	82,330	772,450	724,601	< 47,849>
TOTAL MINED (tons)	389,920	409,262	19,342	1,068,450	918,633	<149,817>
GRADE ORE MINED (oz/ton Au)	.032	.031	<.001>	.032	.033	.001
ORE CRUSHED (tons)	156,000	147,135.7	<8864.3>	195,000	162,756.8	<32,243.2>
GRADE ORE CRUSHED (oz/ton Au)	.032	.038	.006	.032	.036	.004
ORE TO PADS (tons)	156,000	118,753	<37,247>	195,000	118,753	< 76,247>
SPENT ORE F/PADS (tons)	0	0	0	0	0	0
METAL PRODUCED (oz)						
AU	200	0	<200>	200	0	<200>
AG	160	0	<160>	160	0	<160>



BROHM MINING CORPORATION  
GILT EDGE MINE  
MANPOWER SUMMARY  
AUGUST 1988

DESCRIPTION =====	SALARIED		HOURLY		TOTAL	
	Budget	Actual	Budget	Actual	Budget	Actual
Engineering/Geology	5	5	0	0	5	5
Safety/Environmental	3	3	0	0	3	3
Processing	2	2	18	15	20	17
Maintenance	1	1	4	4	5	5
Laboratory	1	0	5	5	6	5
Administration	10	8	0	0	10	8
	=====	=====	=====	=====	=====	=====
TOTAL OXIDE	22	19	27	24	49	43
Sulphide Project	5	2	0	0	5	2
Sulphide Project Temps	0	0	8	6	8	6
	=====	=====	=====	=====	=====	=====
TOTAL SULPHIDE	5	2	8	6	13	8
GRAND TOTAL	27	21	35	30	62	51

<u>MONTH</u>	<u>TERMINATED</u>	<u>HIRED</u>	<u>NET CHANGE</u>
OXIDE PROJECT	0	5	5
SULPHIDE PROJECT	0	1	1
	=====	=====	=====
TOTAL	0	6	6

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20,340'

1988 ASSAYS (  $\geq$  .02 OPT )

R88-366 TD = 1385' (complete)

40 - 205	165' @ .069
220 - 225	5' @ .020
245 - 395	150' @ .031
410 - 625	215' @ .068
745 - 750	5' @ .024
845 - 850	5' @ .027
990 - 1000	10' @ .020

555' @ .056 (WAG)

R88-367 TD = 1500'

5 - 10	5' @ .025
70 - 90	20' @ .020
110 - 115	5' @ .025
125 - 130	5' @ .025
145 - 185	40' @ .025
200 - 370	170' @ .039
400 - 685	285' @ .054
700 - 720	20' @ .022
770 - 775	5' @ .035
795 - 805	10' @ .058
845 - 850	5' @ .030
930 - 935	5' @ .025
950 - 970	20' @ .021
1015 - 1080	65' @ .022
1100 - 1105	5' @ .020
1120 - 1315	195' @ .062
1335 - 1405	70' @ .029

930' @ .044 (WAG)

R88-368 TD = 1455'

230 - 235	5' @ .024
390 - 435	45' @ .051
455 - 505	50' @ .063
525 - 730	205' @ .077
750 - 925	175' @ .046
945 - 965	20' @ .022
1000 - 1095	95' @ .032
1110 - 1135	25' @ .023
1160 - 1250	90' @ .023
1335 - 1385	50' @ .039
1405 - 1455	50' @ .057

810' @ .050 (WAG)

Assay Report  
Page 2

R88-369 TD = 1320'

0 - 5	5'	@ .020
125 - 130	5'	@ .023
185 - 190	5'	@ .034
260 - 350	90'	@ .098
365 - 405	40'	@ .040
420 - 705	285'	@ .034
755 - 760	5'	@ .024
765 - 770	5'	@ .028
790 - 820	30'	@ .073
835 - 845	10'	@ .024
860 - 865	5'	@ .021
915 - 925	10'	@ .026
1020 - 1030	10'	@ .021
1050 - 1060	10'	@ .023
1080 - 1085	5'	@ .021
1110 - 1115	5'	@ .050
1220 - 1290	70'	@ .022

595' @ .044 (WAG)

R88-370 TD = 1470'

170 - 285	115'	@ .050
300 - 320	20'	@ .079
335 - 390	55'	@ .028
405 - 415	10'	@ .026
430 - 465	35'	@ .043
485 - 520	35'	@ .048
660 - 685	25'	@ .020
710 - 735	25'	@ .025
760 - 810	50'	@ .039
875 - 880	5'	@ .020
910 - 1020	110'	@ .038
1060 - 1115	55'	@ .035
1135 - 1225	90'	@ .060
1455 - 1460	5'	@ .021

635' @ .043 (WAG)

Assay Report  
Page 3

R88-371 TD = 1320'

5 - 20	15'	@ .023
335 - 340	5'	@ .021
355 - 380	25'	@ .029
395 - 450	55'	@ .044
465 - 540	75'	@ .144
610 - 625	15'	@ .024
655 - 715	60'	@ .028
755 - 855	100'	@ .076
880 - 885	5'	@ .021
890 - 895	5'	@ .020
900 - 905	5'	@ .021
920 - 925	5'	@ .020
940 - 950	10'	@ .042
990 - 995	5'	@ .021
1015 - 1020	5'	@ .027
1035 - 1110	75'	@ .029
1130 - 1135	5'	@ .024
1150 - 1240	90'	@ .038
1260 - 1275	15'	@ .059
1290 - 1305	15'	@ .021

590' @ .054 (WAG)

R88-372 TD = 1055'

20 - 65	45'	@ .023
80 - 95	15'	@ .024
110 - 145	35'	@ .024
165 - 175	10'	@ .031
190 - 245	55'	@ .026
265 - 290	25'	@ .057
325 - 345	20'	@ .051
395 - 455	60'	@ .042
470 - 475	5'	@ .026
490 - 495	5'	@ .022
560 - 565	5'	@ .055
735 - 740	5'	@ .025
770 - 775	5'	@ .034
785 - 800	15'	@ .029
820 - 830	10'	@ .042
1040 - 1055	15'	@ .126

320' @ .039 (WAG)

Assay Report  
Page 4

R88-373      TD = 1360'

0 - 95	95'	@ .050
110 - 205	95'	@ .022
220 - 305	85'	@ .021
345 - 515	170'	@ .051
545 - 565	20'	@ .021
660 - 665	5'	@ .023
705 - 725	20'	@ .021
795 - 815	20'	@ .022
830 - 855	25'	@ .053
890 - 930	40'	@ .035
1000 - 1005	5'	@ .028
1165 - 1180	15'	@ .053
1195 - 1200	5'	@ .020
1235 - 1240	5'	@ .020
1255 - 1275	20'	@ .021
1310 - 1330	20'	@ .074

645' @ .038 (WAG)

R88-374      TD = 1305'

110 - 115	5'	@ .035
315 - 320	5'	@ .105
440 - 445	5'	@ .105
505 - 520	15'	@ .055
595 - 670	75'	@ .044
705 - 710	5'	@ .065
760 - 765	5'	@ .020
780 - 785	5'	@ .025
805 - 810	5'	@ .035
875 - 880	5'	@ .030
945 - 950	5'	@ .035
965 - 1040	75'	@ .069
1120 - 1125	5'	@ .035
1150 - 1155	5'	@ .025
1165 - 1170	5'	@ .045
1260 - 1275	15'	@ .125

240' @ .058 (WAG)

Assay Report  
Page 5

R88-375      TD = 1415'

60 - 85	25'	@ .027
100 - 125	25'	@ .033
425 - 630	205'	@ .057
645 - 675	30'	@ .024
695 - 700	5'	@ .020
705 - 710	5'	@ .035
720 - 725	5'	@ .025
770 - 775	5'	@ .035
795 - 800	5'	@ .055
820 - 825	5'	@ .025
865 - 880	15'	@ .035
900 - 910	10'	@ .032
920 - 925	5'	@ .030
930 - 935	5'	@ .025
945 - 950	5'	@ .025
980 - 1000	20'	@ .038
1045 - 1055	10'	@ .030
1110 - 1125	15'	@ .095
1145 - 1160	15'	@ .032
1205 - 1210	5'	@ .035

420' @ .046 (WAG)

R88-376      TD = 1005'

5 - 10	5'	@ .020
75 - 190	115'	@ .033
210 - 215	5'	@ .035
320 - 370	50'	@ .036
385 - 525	140'	@ .022
580 - 595	15'	@ .067
700 - 810	110'	@ .042
825 - 860	35'	@ .030
880 - 885	5'	@ .030
900 - 910	10'	@ .028
965 - 970	5'	@ .025
980 - 985	5'	@ .025

500' @ .033 (WAG)

Assay Report  
Page 6

R88-377 TD = 1305'

5 - 20	15' @ .028
35 - 60	25' @ .022
80 - 275	195' @ .049
290 - 365	75' @ .017
445 - 450	5' @ .026
475 - 620	145' @ .100
635 - 700	65' @ .036
720 - 725	5' @ .021
745 - 770	25' @ .030
835 - 850	15' @ .022
900 - 905	5' @ .022
925 - 930	5' @ .027

580' @ .052 (WAG)

R88-378 TD = 1210'

280 - 320	40' @ .024
335 - 340	5' @ .026
345 - 350	5' @ .020
365 - 390	25' @ .026
565 - 630	65' @ .051
645 - 650	5' @ .027
685 - 835	150' @ .037
860 - 1060	200' @ .044
1080 - 1110	30' @ .024
1125 - 1150	25' @ .023
1185 - 1190	5' @ .027

555' @ .038 (WAG)

R88-379 TD = 800'

135 - 140	5' @ .053 (complete)
355 - 360	5' @ .024
625 - 635	10' @ .035
685 - 695	10' @ .029

30 @ .034 (WAG)



Assay Report  
Page 7

R88-380 TD = 400' (complete)

145 - 155	10' @ .080
210 - 215	5' @ .028
340 - 350	10' @ .025

25' @ .048 (WAG)

R88-381 TD = 830'

40 - 45	5' @ .028
60 - 70	10' @ .044
85 - 125	40' @ .024
140 - 150	10' @ .023
400 - 430	30' @ .023
480 - 495	15' @ .024
570 - 575	5' @ .037
760 - 765	5' @ .053
800 - 805	5' @ .043

125' @ .028 (WAG)

R88-382 TD = 1160'

175 - 185	10' @ .027
200 - 205	5' @ .026
220 - 235	15' @ .021
275 - 280	5' @ .021
295 - 300	5' @ .026
355 - 360	5' @ .024
410 - 415	5' @ .035
495 - 500	5' @ .022
530 - 535	5' @ .022
565 - 585	20' @ .036
655 - 670	15' @ .026
680 - 685	5' @ .021
715 - 720	5' @ .048
735 - 740	5' @ .036
760 - 775	15' @ .043
790 - 795	5' @ .034
870 - 880	10' @ .035
915 - 940	25' @ .051
955 - 980	25' @ .037
1155 - 1160	5' @ .022

195' @ .034 (WAG)

Assay Report  
Page 8

R88-383 TD = 1380' (complete)

0 - 125	125' @ .081
145 - 160	15' @ .021
525 - 535	10' @ .050
625 - 630	5' @ .020
645 - 665	20' @ .036
770 - 775	5' @ .065
965 - 970	5' @ .028
1010 - 1020	10' @ .061
1095 - 1105	10' @ .026
1130 - 1135	5' @ .027
1190 - 1195	5' @ .055
1210 - 1235	25' @ .031
1255 - 1280	25' @ .020
1310 - 1315	5' @ .027
1350 - 1370	20' @ .030

290' @ .054 (WAG)

R88-384 TD = 600'

5 - 35	30' @ .034
50 - 105	55' @ .031
170 - 175	5' @ .021
305 - 315	10' @ .029
340 - 405	65' @ .039
510 - 515	5' @ .022

170' @ .034 (WAG)

R88-385 TD = 1000'

5 - 485	480' @ .049
520 - 530	10' @ .026
585 - 590	5' @ .020
665 - 670	5' @ .027
695 - 700	5' @ .023
705 - 725	20' @ .029
745 - 775	30' @ .037
835 - 850	15' @ .024
890 - 910	20' @ .030
930 - 1000	70' @ .104

660' @ .052

Assay Report  
Page 9

R88-386 TD = 925'

0 - 65	65' @ .029
85 - 600	515' @ .053
630 - 640	10' @ .022
655 - 740	85' @ .034
765 - 770	5' @ .034
780 - 785	5' @ .027
790 - 795	5' @ .022
825 - 840	15' @ .025

705' @ .047 (WAG)

R88-387 TD = 1365'

150 - 165	15' @ .093
245 - 250	5' @ .030
360 - 365	5' @ .030
375 - 390	15' @ .061
1005 - 1040	35' @ .045
1105 - 1130	25' @ .041
1145 - 1170	25' @ .025
1230 - 1235	5' @ .020
1260 - 1265	5' @ .057
1355 - 1360	5' @ .022

140' @ .045

R88-388 TD = 1350'

0 - 45	45' @ .046
80 - 150	70' @ .075
165 - 265	100' @ .059
320 - 335	15' @ .036
400 - 435	35' @ .042
535 - 545	10' @ .036
725 - 740	15' @ .029
825 - 840	15' @ .031
850 - 855	5' @ .034
885 - 890	5' @ .048
915 - 920	5' @ .027
1015 - 1035	20' @ .036
1060 - 1065	5' @ .028
1105 - 1140	35' @ .084
1220 - 1245	25' @ .051
1260 - 1295	35' @ .047
1315 - 1320	5' @ .032
1345 - 1350	5' @ .042

450' @ .054 (WAG)

Assay Report  
Page 10

R88-389 TD = 760'

0 - 40	40' @ .025
130 - 355	225' @ .033
370 - 525	155' @ .049
580 - 595	15' @ .031
620 - 635	15' @ .050
730 - 755	25' @ .020

475' @ .037

R88-390 TD = 1275'

0 - 5	5' @ .060
50 - 55	5' @ .039
85 - 90	5' @ .022
315 - 320	5' @ .025
350 - 550	200' @ .062
565 - 650	85' @ .025
680 - 685	5' @ .028
875 - 880	5' @ .020
885 - 890	5' @ .026
925 - 930	5' @ .113
955 - 965	10' @ .030
985 - 990	5' @ .021
1065 - 1070	5' @ .025
1100 - 1140	40' @ .026
1160 - 1180	20' @ .023
1230 - 1250	20' @ .033

425' @ .044 (WAG)

R88-391 TD = 1145' (complete)

0 - 20	20' @ .045
55 - 395	340' @ .043
430 - 475	45' @ .020
490 - 695	205' @ .040
1065 - 1080	15' @ .028
1095 - 1140	45' @ .023

670' @ .039 (WAG)

Assay Report  
Page 11

R88-392      TD = 1325'

115 - 155	40' @ .029
375 - 730	355' @ .067
760 - 855	95' @ .059
875 - 985	110' @ .077
1000 - 1010	10' @ .039
1025 - 1030	5' @ .022
1060 - 1065	5' @ .020
1085 - 1110	25' @ .024
1155 - 1160	5' @ .020
1200 - 1205	5' @ .030
1230 - 1245	15' @ .030
1320 - 1325	5' @ .052 TD

675' @ .061 (WAG)

R88-393      TD = 1230'

0 - 60	65' @ .037
60 - 95	MINE WORKINGS
95 - 115	20' @ .126
115 - 125	MINE WORKINGS
125 - 245	120' @ .081
245 - 255	MINE WORKINGS
255 - 300	45' @ .121
320 - 465	145' @ .071
545 - 570	25' @ .044
600 - 705	105' @ .044
735 - 930	195' @ .060
1025 - 1035	10' @ .027

730' @ .066 (WAG)

R88-394      TD = 1165'

75 - 150	75' @ .037
165 - 175	10' @ .034
195 - 200	5' @ .136
235 - 315	80' @ .035
330 - 510	180' @ .025
605 - 615	10' @ .041
645 - 780	135' @ .037
795 - 825	30' @ .098
840 - 900	60' @ .050
925 - 1080	155' @ .023

740' @ .035 (WAG)

Assay Report  
Page 12

R88-395 TD = 715' (complete)

0 - 160	160' @ .034
175 - 425	250' @ .033
445 - 450	5' @ .056
465 - 475	10' @ .041
495 - 500	5' @ .023
510 - 515	5' @ .021

435' @ .034 (WAG)

R88-396 TD = 725' (complete)

5 - 25	20' @ .033
45 - 50	5' @ .021
115 - 120	5' @ .026
140 - 150	10' @ .020
165 - 205	40' @ .030
220 - 225	5' @ .055
260 - 315	55' @ .031
330 - 335	5' @ .022
355 - 575	220' @ .065
590 - 600	10' @ .037
700 - 705	5' @ .023

380' @ .050

R88-397 TD = 1125'

90 - 105	15' @ .023
125 - 200	75' @ .033
215 - 270	55' @ .032
285 - 330	45' @ .030
355 - 390	35' @ .024
405 - 410	5' @ .021
435 - 450	15' @ .021
470 - 500	30' @ .036
575 - 595	20' @ .048
615 - 620	5' @ .036
635 - 645	10' @ .037
685 - 690	5' @ .020
725 - 770	45' @ .030
785 - 790	5' @ .021
805 - 850	45' @ .035
905 - 990	85' @ .031
1005 - 1020	15' @ .023
1035 - 1095	60' @ .023
1110 - 1125	15' @ .025

585' @ .030 (WAG)

Assay Results  
Page 13

R88-398 TD = 1200'

0 - 25	25' @ .037
40 - 50	10' @ .025
65 - 185	120' @ .036
200 - 365	165' @ .033
400 - 500	100' @ .101
520 - 565	45' @ .045
610 - 615	5' @ .024
650 - 665	15' @ .058
685 - 720	35' @ .027
745 - 750	5' @ .060
775 - 780	5' @ .055
865 - 870	5' @ .028
885 - 895	10' @ .049
925 - 935	10' @ .034
1045 - 1050	5' @ .021
1090 - 1100	10' @ .051
1155 - 1160	5' @ .020

575' @ .047 (WAG)

R88-399 TD = 1185'

15 - 25	10' @ .034
45 - 130	85' @ .034
155 - 490	335' @ .093
535 - 560	25' @ .037
580 - 655	75' @ .056
690 - 700	10' @ .032
730 - 735	5' @ .024
885 - 895	10' @ .026
970 - 975	5' @ .029
1050 - 1070	20' @ .029
1160 - 1185	25' @ .459

605' @ .087 (WAG)

Assay Results  
Page 14

R88-400 TD = 1305'

10 - 35	25' @ .031
275 - 280	5' @ .050
395 - 400	5' @ .029
420 - 435	15' @ .021
600 - 770	170' @ .069
805 - 810	5' @ .027
850 - 855	5' @ .020
910 - 915	5' @ .033
925 - 930	5' @ .027
1065 - 1070	5' @ .020
1135 - 1145	10' @ .050

255' @ .056 (WAG)

R88-401 TD = 1040'

(quartz trachyte stock)

65 - 70	5' @ .047
115 - 150	35' @ .037
245 - 250	5' @ .032
300 - 345	NO ASSAYS YET
650 - 815	NO ASSAYS YET
855 - 860	5' @ .032

50' @ .037 (WAG)

R88-402 TD = 1330'

5 - 25	20' @ .072
40 - 50	10' @ .028
75 - 280	205' @ .061
300 - 345	NO ASSAYS YET
380 - 425	45' @ .164
585 - 805	220' @ .122
860 - 870	10' @ .029
890 - 905	15' @ .042

525' @ .094 (WAG)



Assay Results  
Page 15

R88-403 TD = 790'

0 - 10	10' @ .026
10 - 50	NO ASSAYS YET
75 - 90	15' @ .055
335 - 340	5' @ .026
345 - 350	5' @ .022
400 - 500	100' @ .048
690 - 715	25' @ .036
730 - 760	30' @ .183

190' @ .066

R88-404 TD = 1450'

45 - 60	15' @ .131
80 - 110	30' @ .050
135 - 165	30' @ .090
220 - 225	5' @ .150
385 - 685	NO ASSAYS YET
685 - 755	70' @ .035 (INC. ORE ZONE)
825 - 835	10' @ .026
890 - 1150	260' @ .145
1165 - 1340	175' @ .036
1360 - 1445	85' @ .036 (INC. ORE ZONE)

680' @ .083 (WAG)

R88-405 TD = 1125'

(quartz trachyte stock)

40 - 100	60' @ .055
115 - 120	5' @ .031
135 - 170	35' @ .042
300 - 365	NO ASSAYS YET
680 - 685	5' @ .020
755 - 760	5' @ .028
775 - 810	35' @ .031
830 - 835	5' @ .026
855 - 860	5' @ .023
875 - 885	10' @ .026
970 - 975	5' @ .036
1005 - 1010	5' @ .023
1050 - 1055	5' @ .038
1085 - 1095	10' @ .037

190' @ .040 (WAG)

Assay Results  
Page 16

R88-406 TD = 700'

35 - 40 5' @ .059

5' @ .059

R88-407 TD = 540'

325 - 330 5' @ .026

425 - 430 5' @ .046

455 - 470 15' @ .033

490 - 495 5' @ .021

520 - 540 20' @ .096 (INC. ORE ZONE)

50' @ .058 (WAG)

R88-408 TD = 1315'

85 - 90 5' @ .044

130 - 135 5' @ .037

285 - 305 20' @ .024

330 - 350 20' @ .020

375 - 395 20' @ .060

410 - 450 40' @ .024

470 - 485 15' @ .024

500 - 590 90' @ .028

605 - 1205 NO ASSAYS YET

1220 - 1225 5' @ .020

1265 - 1270 5' @ .022

1285 - 1315 30' @ .025 (INC. ORE ZONE)

255' @ .032 (WAG)

R88-409 TD = 1400'

105 - 110 5' @ .032

140 - 175 35' @ .031

225 - 235 10' @ .024

315 - 360 45' @ .043

380 - 520 140' @ .071

535 - 785 250' @ .048

800 - 880 80' @ .044

925 - 930 5' @ .066

960 - 1070 110' @ .075

1125 - 1130 5' @ .039

1150 - 1160 10' @ .020

1180 - 1185 5' @ .035

1205 - 1210 5' @ .034

1265 - 1270 5' @ .026

710' @ .054 (WAG)

# Assay Results

Page 17

R88-410 TD = 720'

100 - 105	5' @ .022
145 - 150	5' @ .054
285 - 290	5' @ .042
495 - 510	15' @ .022
545 - 550	5' @ .024
595 - 610	15' @ .040
635 - 640	5' @ .028

55' @ .032 (WAG)

R88-411 TD = 1065'

240 - 250	10' @ .020
330 - 340	10' @ .032
375 - 400	25' @ .023 (INC. ORE ZONE)
400 - 695	NO ASSAYS YET
700 - 705	5' @ .021
810 - 820	10' @ .027
870 - 880	10' @ .028

70' @ .025 (WAG)

R88-412 TD = 1260'

0 - 300	NO ASSAYS YET
300 - 380	80' @ .040 (INC. ORE ZONE)
450 - 455	5' @ .041
470 - 475	5' @ .036
495 - 535	50' @ .027
545 - 1145	NO ASSAYS YET
1240 - 1245	5' @ .048

135' @ .036 (WAG)

R88-413 TD = 1135'

0 - 625	NO ASSAYS YET
625 - 680	55' @ .029 (INC. ORE ZONE)
730 - 755	25' @ .042
780 - 785	5' @ .023
840 - 895	55' @ .053 (INC. ORE ZONE)
905 - 1135	NO ASSAYS YET

140' @ .040 (WAG)

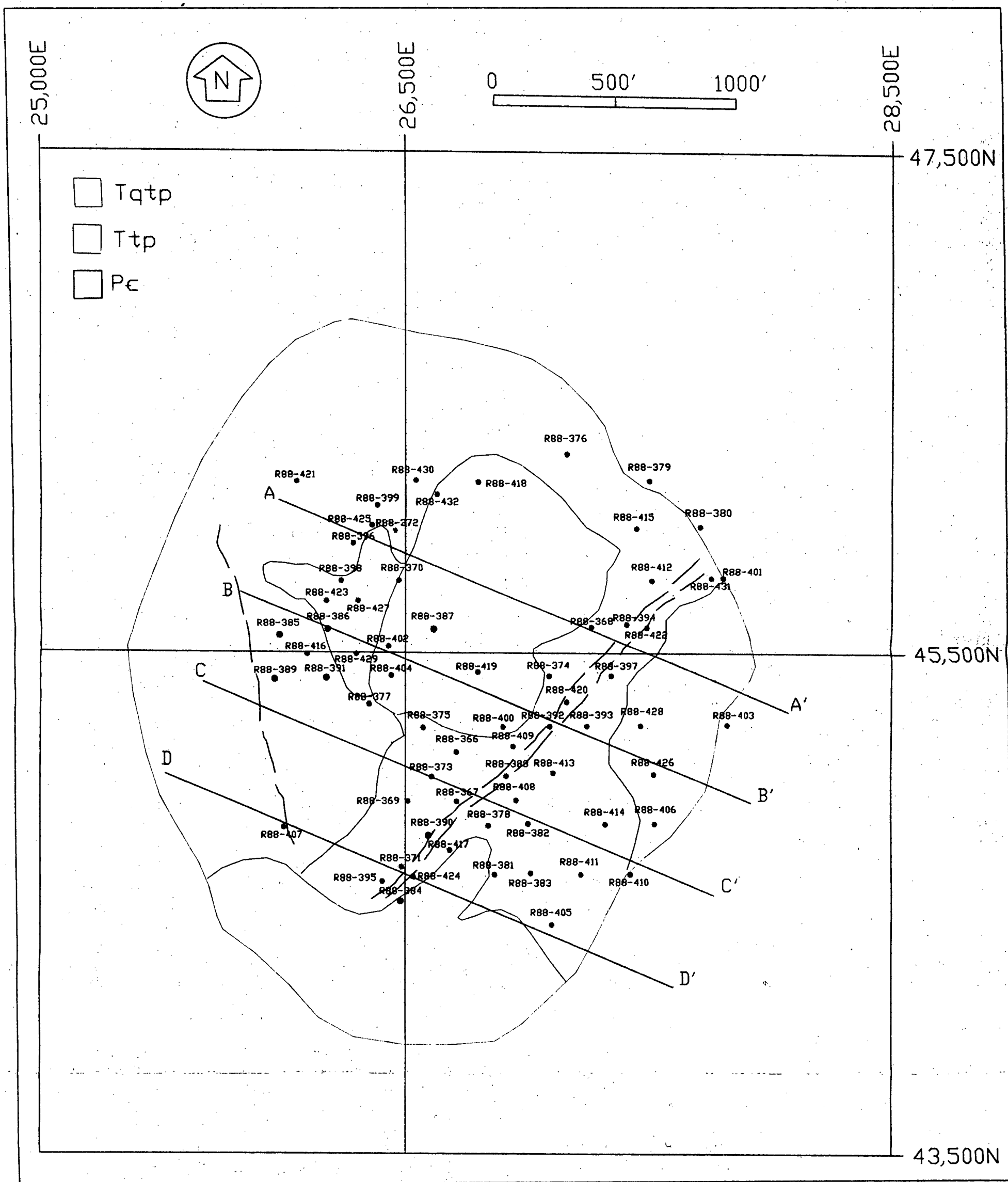
Assay Results  
Page 18

R88-414      TD = 1015'

0 - 300	NO ASSAYS YET
300 - 305	5' @ .055 (INC. ORE ZONE)
505 - 1015	NO ASSAYS YET

R88-415      TD = 1120'

0 - 600	NO ASSAYS YET
615 - 645	30' @ .028 (INC. ORE ZONE)
645 - 1120	NO ASSAYS YET



CURRENT STATUS - 1988 SULPHIDE DEVELOPMENT DRILLING PROGRAM  
 GILT EDGE, SOUTH DAKOTA  
 SEPTEMBER 9, 1988

# BROHM MINING CORP.

DATE: SEPTEMBER 9, 1988

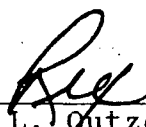
TO: MINVEN GOLD CORPORATION - LAKEWOOD, COLORADO

FOR: JAMES A. ANDERSON

FROM: REX L. OUTZEN

SUBJECT: GILT EDGE PROJECT - MONTHLY FLASH REPORT - AUGUST, 1988

- \* Continued mining activities.
- \* Continued crushing activities.
- \* Commenced loading first ore onto the leach pad (Aug. 9th).
- \* Continued Oxide Project construction
  - Modified and repaired several crushing plant problems.
  - Completed leach pad primary liner (petromat) installation.
  - Completed laying all leach pad asphaltic concrete including divider berms.
  - Continued installation of all solution distribution and solution collection system.
  - Continued finalizing all process piping, electrical and architectural work.
  - Continued property fencing.
  - Completed construction of the site administration building.
  - Completed installation of the diatomaceous earth pond and neutralization pond liners.
  - Continued encountering problems with the surge pond liner system.
- \* Continued Sulphide Project development.
- \* Continued Sulphide Project development drilling program.
- \* Hired five new employees this month including Mike Perovanovic (Purchasing Agent).
- \* Conducted several employee polygraph examinations.
- \* Several site tours were given to people from the USFS, Chase Manhattan Bank, Northwestern Metals Co. and Dayton Resources.
- \* Continued SDMA campaign to defeat the antiminining initiatives.
- \* Ex-governor Bill Janklow joined the SDMA as General Counsel to help defeat the initiatives.

  
Rex L. Outzen

South Dakota Office: P.O. Box 485, Deadwood, South Dakota 57732  
Telephone: (605) 578-2107 Telecopier: (605) 578-1709

Head Office: #1660-999 West Hastings Street, Vancouver, B.C. V6C 2W2  
Telephone: (604) 662-8383 Telex: 04-51472 P V C V C R Telecopier: (604) 684-1329

# **BROHM MINING CORP.**

DATE: AUGUST 12, 1988  
TO: MINVEN GOLD CORPORATION - LAKEWOOD, COLORADO  
FOR: JAMES A. ANDERSON  
FROM: REX L. OUTZEN  
SUBJECT: MONTHLY REPORT - GILT EDGE PROJECT - JULY, 1988

## SUMMARY

Construction of the Gilt Edge Heap Leach Project continued in July. Significant progress was made in the areas of mining, crushing and construction of the leach pad, process plant, laboratory, process water system, solution ponds and administration office. However, installation of the HDPE liners continues to be a major problem and has negatively impacted the completion of construction. Due to the delay in the schedule, contingency funds have been consumed and it appears the planned capital costs will be exceeded. In addition to the heap leach project, development of the sulphide project including development drilling continued.

## MINING

Preproduction mining and ore stockpiling continued in July. A total of 49,950 tons of ore and 273,818 tons of waste were mined during the month. Overall the mining activity is going well and the contractor continues to increase productivity as he becomes more familiar with Brohm's desires. Mine statistics for July are attached.

## PROJECT ENGINEERING AND CONSTRUCTION

Detail design engineering remains at about 96% complete with the only remaining engineering work being the completion of as built drawings. Engineering continues to support the field as needed until the project is completed. Expediting of the remaining minor equipment continued during the month.

Construction activities continued. The main activities included mining, completion of tailings and drainrock placement, completion of most all concrete placement, completion of all building erection, completion of major crushing plant installation, equipment installation, initiation of leach pad asphalt installation, liner installation, electrical installation and pipe fabrication and installation.

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Construction of the crushing plant progressed well in July and crushing activities were initiated July 24th. By the end of the month the crushing plant had crushed approximately 15,000 tons of ore and had been operated long enough to identify problem areas. A punch list of repair items was prepared and the crushing plant was shut down early in August to take care of all punch list items. Crushing plant statistics for July are attached.

Construction of the leach pad progressed. HDPE liner installation continued to be a problem but both secondary and primary leach pad HDPE liners were completed in July. In addition, the first layer of asphalt was completed on the leach pad. Also, installation of the primary leach pad liner (petromat) and the second layer of asphalt was initiated. Now that the HDPE liner is complete, leach pad construction is progressing rapidly and the first ore will be loaded onto the leach pad early in August.

The construction of the process plant and laboratory proceeded well in July. By the end of the month most all equipment had been installed and only minor HVAC, architectural, electrical and piping work remain to be completed. Wet testing of the processing plant will commence once the surge pond is completed and filled with water.

HDPE liner installation continued slowly in July. However, by the end of the month the secondary and primary liners were placed in the surge pond. Hydrostatic testing of the surge pond liners was initiated July 28th and a leak was detected the following day. The leak was identified at the boot around the pump casing pipe support and was being repaired at the end of the month. Once repaired, hydrostatic testing will resume. With the surge pond liner installation completed, lining of the neutralization pond and diatomaceous earth pond will commence in August.

Overall construction, other than HDPE liner installation, is proceeding well. At the end of July construction was 94% complete. Most everything will be completed in August. However, due to the delay caused by liner installation, the first gold will not be produced until early September.

#### STAFFING

Interviewing, polygraph testing, physical examinations and pre-screening was completed resulting in 19 new employees being hired during July. The new employees have been introduced to Brohm, the rules and regulations, and have received several days of safety training. They have now commenced actual work and are already making a major contribution to the company.



The remaining employees will be hired during the month of August. One termination resulted in July when Carson Whitlock, Lab Supervisor, resigned due to personal reasons. The monthly manpower summary for July is attached.

#### PROPERTY STATUS

Agreements were finalized with Northwestern Metals and with Mark Baggaley during July.

Negotiations continue with Dickmeyer and should be finalized in August.

#### ENVIRONMENTAL/PERMITTING

Brohm received both the air quality and ground water discharge permits in July. These permits now complete the permitting process for the oxide heap leach project. We are all happy to have this behind us. The only other item required is DWNR approval of completion of the project prior to mixing or introducing any cyanide to the process plant facilities. The DWNR has been notified and is up to date with construction progress and no problems obtaining their final approval are anticipated.

Air and water quality sampling and monitoring continue.

#### EXPLORATION AND GEOLOGY

Sulphide project development drilling continued in July and was once again accelerated with the arrival of a third drill rig (Lang) July 22nd. A total of 17 drill holes were completed in July for 19,605 feet. Total drilled footage since drilling restarted in May through the end of July amounts to 28,610 feet in 26 drill holes. The drilling is now proceeding very well and Phase I should be completed by the end of August.

Due to the tremendous amount of drilling activity throughout the U.S. and the demand being placed on assaying laboratories, the resulting analysis of samples from the drilling program have been extremely slow. However, complete assay results have been obtained for 10 holes and partial results for 5 holes. Several significant intercepts have been encountered. Drilling and assaying statistics summary for July is attached. Cross sections continue to be updated with new drilling information as it becomes available.

## SULPHIDE PROJECT

Sulphide project development work continued in July. Along with the development drilling program, work continued on the plan of operations and feasibility study. Public relation firms were interviewed and a selection will be made early in August. Baseline data gathering continued and was enhanced with the additional air quality monitoring equipment installed on Anchor Hill during the month.

Contractors for final soil and archaeological surveys were interviewed and selected. Metallurgical testwork was reviewed and final metallurgical testwork scope of work is being prepared. Also, requests for proposals for detail engineering, procurement and construction management are being prepared.

## GENERAL

The SDMA campaign to defeat the initiatives is becoming much more aggressive. The speakers bureau is now very active along with numerous people attending the county fairs. In addition, it appears the ex-governor, William Janklow, will be joining the association to help defeat the initiatives.

The Lawrence County Commissioners and Planning and Zoning Committee members visited the Gilt Edge Project July 29th. The purpose of the site visit was to update them on the construction progress. All of them were impressed with the progress and were complimentary of the quality of construction.

A presentation and site tour of the Gilt Edge Project was given to numerous members of the Ventures Trident Board and associated companies July 22nd. Most everyone seemed to enjoy the tour and view first hand the progress of the project. A western barbecue was held later that evening and was enjoyed by all.

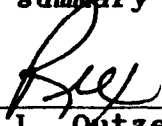
With the assistance of Tom Campbell, Handy and Harman was the low bidder and was selected as the contract precious metals refiner.

## AUGUST ACTIVITIES

- \* Finalize construction of the heap leach project.
- \* Complete all pond hydrostatic testing and obtain DWNR approval to operate.
- \* Commence leach pad loading and ore leaching activities.
- \* Commence start up of processing plant activities.
- \* Complete all project staffing and training requirements.

- \* Finalize all arrangements for shipping, insurance and refining of precious metals.
- \* Continue SDMA efforts to assist in defeating the anti-mining initiatives.
- \* Continue all sulphide project development work including drilling, baseline data gathering, metallurgical testing, engineering, public relations, etc.

Attached please find the monthly mine and plant statistics reports, the development drilling drill hole map and associated assays and the monthly manpower summary report.

  
\_\_\_\_\_  
Rex L. Outzen

RLO/dvl

cc: J. Barron  
D. Blakeman  
P. Goodwin  
D. Langford  
M. Neumann  
C. Seward  
D. Stewart  
J. Wilbanks

# GILT EDGE MINE

## MINE STATISTICS FOR THE MONTH OF JULY, 1988

DESCRIPTION	MONTH		YEAR TO DATE	
	CU YDS	TONS	CU YDS	TONS
SUNDAY PIT ORE	24,975	49,950	49,015	98,030
SUNDAY PIT WASTE	101,882	203,764	142,223	284,446
TOTAL SUNDAY PIT MINED	126,857	253,714	191,238	382,476
DAKOTA PIT ORE	-0-	-0-	1,495	2,990
DAKOTA PIT WASTE	35,027	70,054	61,952	123,904
TOTAL DAKOTA PIT MINED	35,027	70,054	63,447	126,894
TOTAL ORE MINED	24,975	49,950	50,510	101,020
TOTAL WASTE MINED	136,909	273,818	204,175	408,350
TOTAL MINED	161,884	323,768	254,685	509,370
GRADE ORE MINED	AU	AG	AU	AG
SUNDAY PIT ORE	.033	---	.034	---
DAKOTA PIT ORE	---	---	.043	---
TOTAL ORE MINED	.033	---	.035	---

COMMENTS

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# GILT EDGE MINE

## PLANT STATISTICS FOR THE MONTH OF JULY, 1988

DESCRIPTION	MONTH	YTD
DRY TONS CRUSHED	15621.1	15621.1
TPD AVERAGE	1952.6	1952.6
OPERATING TIME CRUSHING HRS/%	33.0/55.9	33.0/55.9
DOWNTIME - CRUSHING HRS/%	26.0/44.1	26.0/44.1
AVAILABLE TIME CRUSHING (HRS)	59.0	59.0
OPERATING TIME LEACHING HRS/%	---	---
DOWNTIME - LEACHING HRS/%	---	---
OPERATING TIME PRECIPITATION HRS/%	---	---
DOWNTIME - PRECIPITATION HRS/%	---	---
AVAILABLE TIME	---	---

ASSAYS	AU	AG	AU	AG
ORE TO LEACH PADS	---	---	---	---
PREGNANT SOLUTION	---	---	---	---
BARREN SOLUTION	---	---	---	---
TAILINGS FROM PAD	---	---	---	---

PRODUCTION	MONTH	YTD
CALCULATED METAL PRODUCTION	---	---
DORE PRODUCED	---	---
% AU IN DORE	---	---
% AG IN DORE	---	---
OZ AU PRODUCED	---	---
OZ AG PRODUCED	---	---
ORE TO PADS	---	---
TAILINGS FROM PADS	---	---

**BROHM MINING CORPORATION  
GILT EDGE MINE  
MANPOWER SUMMARY  
JULY 1988**

<u>DESCRIPTION</u> *****	<u>SALARIED</u>		<u>HOURLY</u>		<u>TOTAL</u>	
	<u>Budget</u>	<u>Actual</u>	<u>Budget</u>	<u>Actual</u>	<u>Budget</u>	<u>Actual</u>
Engineering/Geology	5	5	0	0	5	5
Safety/Environmental	3	3	0	0	3	3
Processing	2	2	18	12	20	14
Maintenance	1	1	4	4	5	5
Laboratory	1	0	5	4	6	4
Administration	9	7	0	0	9	7
	*****	*****	*****	*****	*****	*****
TOTAL OXIDE	21	18	27	20	48	38
Sulphide Project	5	2	0	0	5	2
Sulphide Project Temps	0	0	8	5	8	5
	*****	*****	*****	*****	*****	*****
TOTAL SULPHIDE	5	2	8	5	13	7
GRAND TOTAL	26	20	35	25	61	45

<u>MONTH</u>	<u>TERMINATED</u>	<u>HIRED</u>	<u>NET CHANGE</u>
OXIDE PROJECT	1	19	18
SULPHIDE PROJECT	0	0	0
	*****	*****	*****
TOTAL	1	19	18

(mnpwsum)

(080268)



**SUMMARY AS OF JULY 31, 1988**

**Number of Completed Holes = 26**

**Total Footage = 28,610'**

**Holes in Progress = 2**

**Number of Holes with Complete Assays = 10**

**Total Footage with Complete Assays = 8,393'**

**Average Grade over .02 opt = 2,815' @ .044**

**Number of Holes with Partial Assays = 5**

**Total Footage with Complete Assays = 3,550'**

**Average Grade over .02 opt = 1,330' @ .053**

**Total Footage with Assays = 11,943'**

**Average Grade over .02 opt = 4,145' @ .047**

**Total Footage with Assays Pending = 16,667'**



# ASSAY RESULT > .02 OPT

## R88-379

TD = 800'

135-140	5 @ .053
355-360	5 @ .024
625-635	10 @ .035
685-695	10 @ .029

30 @ .034 (WAG)

## R88-380

TD = 400

145-155	10 @ .080
210-215	5 @ .028
340-350	10 @ .025

25 @ .048 (WAG)

## R88-381

TD = 830

40-45	5 @ .028
60-70	10 @ .044
85-125	40 @ .024
140-150	10 @ .023
400-430	30 @ .023
480-495	15 @ .024
570-575	5 @ .037
760-765	5 @ .053
800-805	5 @ .043

125 @ .028 (WAG)

## R88-382

TD = 1080

175-185	10 @ .027
200-205	5 @ .026
220-235	15 @ .021
275-280	5 @ .021
295-300	5 @ .026
355-360	5 @ .024
410-415	5 @ .035
495-500	5 @ .022
530-535	5 @ .022
565-585	20 @ .036
655-670	15 @ .026
680-685	5 @ .021
715-720	5 @ .048
735-740	5 @ .036
760-775	15 @ .043
790-795	5 @ .034
870-880	10 @ .035
915-940	25 @ .051
955-980	25 @ .037
1155-1160	5 @ .022

195 @ .034 (WAG)

**Assay Results**  
**Page 2**

**R88-383**      **TD = 1380**  
0-125      125 @ .081  
145-160      15 @ .021  
525-535      10 @ .050  
625-630      5 @ .020  
645-665      20 @ .036  
770-775      5 @ .065  
965-970      5 @ .028  
1010-1020      10 @ .061  
1095-1105      10 @ .026  
1130-1135      5 @ .027  
1190-1195      5 @ .055  
1210-1235      25 @ .031  
1255-1280      25 @ .020  
1310-1315      5 @ .027  
1350-1370      20 @ .030

290 @ .054 (WAG)

**R88-384**      **TD = 600**  
5-35      30 @ .034  
50-105      55 @ .031  
170-175      5 @ .021  
305-315      10 @ .029  
340-405      65 @ .039  
510-515      5 @ .022

170 @ .034 (WAG)

**R88-385**      **TD = 1000**  
5-245      240 @ .047 (Incomplete Ore Zone)  
245-1000      NO ASSAYS IN  
240 @ .047 (WAG)

**R88-386**      **TD = 925**  
0-65      65 @ .029  
85-600      515 @ .053  
630-640      10 @ .022  
655-740      85 @ .034  
765-770      5 @ .034  
780-785      5 @ .027  
790-795      5 @ .022  
825-840      15 @ .025  
705 @ .047 (WAG)

Assay Results  
Page 3

88-387 TD = 1365  
0-785 NO ASSAYS IN  
785-955 NO ASSAYS ABOVE .02 opt.  
955-1365 NO ASSAYS IN

R88-388 TD = 1350  
0-300 NO ASSAYS IN  
320-335 15 @ .036  
365-370 5 @ .022  
385-1350 NO ASSAYS IN  
  
20 @ .032 (WAG)

R88-389 TD = 760  
0-10 10 @ .044  
20-40 20 @ .022  
130-200 70 @ .025 (Incomplete Ore Zone)  
200-725 NO ASSAYS IN  
730-735 5 @ .026  
745-755 10 @ .024  
  
115 @ .022 (WAG)

R88-390 TD = 1275  
0-5 5 @ .060  
50-55 5 @ .039  
80-650 NO ASSAYS IN  
680-685 5 @ .028  
875-880 5 @ .020  
885-890 5 @ .026  
925-935 10 @ .065  
955-965 10 @ .030  
1065-1070 5 @ .025  
1080-1275 NO ASSAYS IN  
  
50 @ .039 (WAG)

R88-391 TD = 1145  
0-20 20 @ .045  
55-115 60 @ .036 (Incomplete Ore Zone)  
115-1145 NO ASSAY IN  
  
80 @ .038 (WAG)

**Assay Results**  
**Page 4**

R88-392 TD = 1325  
NO ASSAYS IN

R88-393 TD = 1230  
NO ASSAYS IN

R88-394 TD = 1165  
NO ASSAYS IN

R88-395 TD = 715  
NO ASSAYS IN

R88-396 TD = 725  
NO ASSAYS IN

R88-397 TD = 1125  
NO ASSAYS IN

R88-398 TD = 1200  
NO ASSAYS IN

R88-399 TD = 1185  
NO ASSAYS IN

R88-400 TD = 1305  
NO ASSAYS IN

R88-401 TD = 1035  
NO ASSAYS IN

R88-402 TD = 1330  
NO ASSAYS IN

R88-403 TD = 790  
NO ASSAYS IN

R88-404 TD = 1450  
NO ASSAYS IN

R88-405 TD = 1125  
NO ASSAYS IN

R88-406  
DRILLING IN PROGRESS

R88-407  
DRILLING IN PROGRESS

(080288)

# BROHM MINING CORP.

DATE: AUGUST 5, 1988  
TO: VENTURES TRIDENT - LAKEWOOD, COLORADO  
FOR: JAMES A. ANDERSON  
SUBJECT: GILT EDGE PROPERTY - MONTHLY FLASH REPORT - <sup>July</sup>~~JUNE~~, 1988

**\* Continued Oxide Project Construction**

Completed crushing plant construction and initiated testing.

Completed leach pad drain rock placement.

Completed the installation of the first 3" layer of asphalt.

Initiated installation of the petromet primary liner and started laying final 3" layer of asphalt.

Completed installation of secondary liner in surge pond and nearing completion of primary liner in surge pond.

Installed fresh water well pumps and commence pumping water to plant and crusher water storage tanks.

Completed construction of all pre-engineered buildings.

Completed installation of all major equipment.

Continued architectural work in laboratory and process plant.

Continued both fabricated and screw in pipe work.

Continued wiring installation and all electrical work.

**\* Administration Building was delivered and is in the process of being assembled.**

**\* Continued preproduction mining activities and stockpiling ore.**

**\* Initiated crushing activities and stockpiling crushed ore.**

**\* Continued sulphide project development.**

**\* Continued sulphide project development drilling program.**

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- \* Selected public relations firm.
- \* Initiated the hiring of numerous hourly employees.
- \* Conducted numerous employee polygraph examinations.
- \* Obtained final Gilt Edge Oxide Project Permits including the Ground Water Discharge Permit and the Air Quality Certificate.
- \* Continued SDMA campaign to defeat antimining initiatives.

  
\_\_\_\_\_  
Rex Outzen

RO/dv1

# **BROHM MINING CORP.**

**DATE:** JULY 18, 1988  
**TO:** VENTURES TRIDENT  
**FOR:** JAMES A. ANDERSON  
**FROM:** REX L. OUTZEN  
**SUBJECT:** MONTHLY REPORT - GILT EDGE PROPERTY - JUNE, 1988

## **SUMMARY**

Construction of the Gilt Edge Heap Leach Project continued at a rapid pace during the month of June. Progress was made in preproduction mining and ore stockpiling, in the crushing plant, leach pad, process plant, laboratory, administration building and Oro Fino pumping system. Procurement activities are near completion. Project staffing and sulphide project development work continued. The project remains within budget but is behind in schedule.

## **MINING**

The contract mining agreement with D.H. Blattner & Sons was finalized and executed June 7, 1988. The agreement is for a term of three years and can be extended for an additional two years at the same rates.

Preproduction mining and ore stockpiling continued. A total of 51,070 tons of ore grading .036 opt Au and 134,530 tons of waste were mined during the month. Actual ore and waste compare favorably to the project ore/waste totals. Mine statistics for June are attached.

## **PROJECT ENGINEERING AND CONSTRUCTION**

Detail design engineering was 95.9% complete at the end of June with the remaining engineering work being the completion of as built drawings. Engineering continues to support the field as needed until the project is completed.

Procurement activities continued, and at the end of June were virtually complete. Most all major equipment has been delivered to the job site. The remaining expediting effort is minimal, but will continue to follow up on the remaining minor items.

Construction activities continued with significant progress being made in June. The main activities during the

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month included preproduction mining, continuation of drainrock production and placement, tailings preparation, concrete placement, building erection, equipment installation, pipe fabrication and installation, liner installation and power line installation.

Construction of the crushing plant progressed well and crushing activities should be initiated late in July.

Construction of the process plant and laboratory facilities is proceeding extremely well and should be ready for wet testing later in July or very early in August.

HDPE liner installation is the only portion of construction that is not proceeding rapidly and could significantly impact the overall construction schedule. The delay in liner installation has been due to not only weather conditions but largely due to inadequately staffed crews for installing the liners. At the end of June liner installation was only 50% complete and was scheduled to be completed by early July. Serious efforts are being undertaken to get additional people either through the liner contractor or independently from other contractors. It is a difficult time of year to get additional qualified people. However, some success was made early in July and it appears liner installation will proceed much more rapidly during the upcoming month. At the end of June construction was 76% complete. Overall the construction is going quite smoothly. If improvements can be made in liner installation, the goal of producing gold by the end of August could still be met.

#### STAFFING

No new employees were hired during the month of June. However, numerous hourly employees were selected for hire during the month. These employees will take polygraph and physical examinations early in July and upon completion of successful examinations, will commence work around the middle of July. The majority of the hourly employees will be on the Gilt Edge payroll before the end of July.

#### PROPERTY STATUS

Land acquisition activities continued. Agreements were finalized with Lynn Olson, Margie Holbrook, Willis Aye and Carl Eilers during June.

Negotiations continue with Northwestern Metals, Baggaley, Dickmeyer and Schipke.

Relocation of the RLC claims, Lost Gulch and Commonwealth claims continue.



## ADMINISTRATION

As was mentioned earlier, numerous potential employees were interviewed, their references checked and the most qualified candidates selected for hire during June. Once the employees have completed polygraph and physical exams, they will commence work at the Gilt Edge Project. A substantial effort will be made in July to introduce these new people to Brohm and to the Gilt Edge Project in order to get them off to the best start possible. Considerable time will be taken to review the employee benefits, employee handbook, safety handbook and provide them with MSHA training prior to the actual commencement of work.

Hourly timecards and payroll procedures were initiated in June. Everything should be in place for an organized commencement of the hourly workforce in July.

In addition to all the personnel work, asset lists are being prepared. In July inventory of all assets will be taken and all equipment and furnishings will be provided an equipment tag.

Preparation of all operator, daily, monthly and production report forms are also being made.

## ENVIRONMENTAL/PERMITTING

The air quality permit was advertised and final approval should be issued late in July just in time to commence crushing operations.

A hearing will be held July 27th before the State Water Management Board for the ground water discharge permit. Meetings with the State departments are presently being held and it appears that there will be no problems in obtaining the ground water discharge permit. However, interveners have until July 26, 1988 to file proper notice.

The DWNR has contracted Geoservices to provide on-site solution containment quality assurance compliance inspection. The quality assurance has proceeded well. Both the DWNR and Geoservices have complimented Brohm on the quality assurance program.

Air and water quality monitoring continue.

## EXPLORATION AND GEOLOGY

Sulphide project development drilling continued in June and was accelerated with the arrival of the second drill rig (Tonto) June 20th. A total of seven drill holes were completed in June for 7,805 feet. Total drilled footage since drilling

restarted in May through the end of June amounts to 9,003 feet in nine drill holes.

To date, complete assays have been received for 5 drill holes. Partial assays have been received for 4 holes. Summary assays along with a drill hole location map are attached.

Reconnaissance mapping and sampling of the Strawberry Hill area continued. Assay results obtained primarily from prospect dumps continue to be encouraging. Gold mineralization in this widespread area appears to be structurally controlled in the Cambrian Deadwood Formation and in porphyritic sills within the Deadwood. Precambrian rocks do not outcrop in the area but are expected to occur within 300 feet of the surface, depending on location. Further mapping and sampling will be conducted in this area and should prove to be an excellent target to develop additional reserves.

Preparations are also being made to obtain a diamond drill rig to obtain metallurgical samples for the sulphide project.

#### SULPHIDE PROJECT

Sulphide project development work continued in June.

Development drilling continued as was mentioned above.

Work continued on the selection of the third party EIS contractor and proposals were submitted to the USFS.

Minproc continued the preparation of the plan of operations and the sulphide project feasibility study.

Knight Piesold continued preliminary tailings dam design.

Spring vegetation, wildlife and hydrology baseline studies were completed.

Request for proposals for detailed soils investigation, archeological studies and soil attenuation studies were prepared.

Three public relation firms were interviewed during the month and public relations presentation will be made in South Dakota in July.

Finally the sulphide project AFE was revised for additional scope of work.

### JULY ACTIVITIES

- \* Continue all phases of the heap leach project construction.
- \* Continue preproduction mining and ore stockpiling activities.
- \* Complete crushing plant construction and commence crushing operations.
- \* Complete leach pad liner installation and commence loading of ore onto leach pad.
- \* Complete process plant construction activities and commence wet testing of process facilities.
- \* Finalize all aspects of oxide project permitting.
- \* Complete project staffing and commence training activities.
- \* Continue all air, water and environmental sampling and monitoring.
- \* Prepare formal asset list.
- \* Continue sulphide project development including baseline data gathering, metallurgical testing, engineering, public relations, etc.
- \* Finalize all arrangements for shipping, insurance and refining of precious metals.

Attached please find the mine statistics report, development drilling drill hole map and associated assays and the monthly manpower summary report.

  
Rex L. Outzen

RL0/dv1

#### Attachments:

cc: D. Stewart, D. Langford, J. Barron, J. Wilbanks, C. Seward,  
M. Neumann, D. Blakeman

# GILT EDGE MINE

## MINE STATISTICS FOR THE MONTH OF JUNE, 1988

DESCRIPTION	MONTH		YEAR TO DATE	
	CU YDS	TONS	CU YDS	TONS
SUNDAY PIT ORE	24,040	48,080	24,040	48,080
SUNDAY PIT WASTE	40,341	80,682	40,341	80,682
TOTAL SUNDAY PIT MINED	64,381	128,762	64,381	128,762
DAKOTA PIT ORE	1,495	2,990	1,495	2,990
DAKOTA PIT WASTE	26,925	53,850	26,925	53,850
TOTAL DAKOTA PIT MINED	28,420	56,840	28,420	56,840
TOTAL ORE MINED	25,535	51,070	25,535	51,070
TOTAL WASTE MINED	67,266	134,532	67,266	134,532
TOTAL MINED	92,801	185,602	92,801	185,602
GRADE ORE MINED	AU	AG	AU	AG
SUNDAY PIT ORE	.036		.036	
DAKOTA PIT ORE	.043		.043	
TOTAL ORE MINED	.036		.036	

### COMMENTS

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# ASSAY RESULT > .02 OPT

## R88-379

TD = 800'

135-140	5' @ .053
355-360	5' @ .024
685-695	<u>10' @ .029</u>
	20' @ .034 (WAG)

## R88-380

TD = 400'

145-155	10' @ .079
210-215	5' @ .028
340-350	<u>10' @ .025</u>
	25' @ .047 (WAG)

## R88-381

TD = 830'

40-45	5' @ .28
60-70	10' @ .044
85-150	65' @ .021
400-430	30' @ .023
480-495	15' @ .024
570-575	<u>5' @ .037</u>
	130 @ .024 (WAG)

## R88-382

TD = 1080'

175-205	30' @ .021
220-235	15' @ .021
565-585	20' @ .036
655-670	15' @ .026
760-775	15' @ .043
870-880	10' @ .033
915-940	25' @ .051
955-980	<u>25' @ .037</u>
	155 @ .034 (WAG)

## R88-383

TD = 1380'

0-125	125' @ .081
450-585	NO ASSAYS IN
645-665	20' @ .036
1010-1020	10' @ .061
1095-1105	10' @ .026
1210-1235	25' @ .031
1255-1280	25' @ .020
1350-1375	<u>25' @ .030</u>
	240' @ .057 (WAG)

**Assay Results**  
**Page 2**

**R88-384**      **TD = 600'**

5-35	30' @ .034
50-105	55' @ .031
305-310	10' @ .029
340-380	40' @ .052
390-405	15' @ .023

150' @ .036 (WAG)

**R88-385**      **TD = 1000'**

**NO ASSAYS IN**

**R88-386**      **TD = 925**

0-65	65' @ .029
85-165	INCOMPLETE ORE ZONE
165-925	<u>NO ASSAYS IN</u>

65' @ .029 (WAG)

**R88-387**      **TD = 1265'**

**NO ASSAYS IN**

**R88-388**

**NO ASSAYS IN**

**R88-389**      **TD = 760'**

0-10	10' @ .044
20-40	20' @ .022
145-205	INCOMPLETE ORE ZONE
205-760	<u>NO ASSAYS IN</u>

30' @ .033 (WAG)

**R88-390**

**DRILLING DAVIS**

**Assay Results**  
**Page 3**

**R88-391**

**TD = 1145'**

**0-20**

**20' @ .045**

**55-115**

**INCOMPLETE ORE ZONE**

**115-1145**

**NO ASSAY IN**

**20' @ .045**

**R88-392**

**TD = 1325'**

**NO ASSAYS IN**

**R88-393**

**DRILLING (TONTTO)**



GILT EDGE PROJECT  
MANPOWER SUMMARY  
JUNE, 1988

<u>DEPARTMENT</u>	<u>SALARIED</u>	<u>HOURLY</u>	<u>TOTAL</u>
ENGINEERING/GEOLOGY	7	0	7
PROCESSING	2	0	2
MAINTENANCE	1	1	2
LABORATORY	1	0	1
ADMINISTRATION	10	0	10
TOTAL	<u>21</u>	<u>1</u>	<u>22</u>

<u>MONTH</u>	<u>HIRED</u>	<u>TERMINATED</u>	<u>NET CHANGE</u>
	0	0	+ 0

PRESENT PERSONNEL

<u>NAME</u>	<u>POSITION</u>	<u>DEPARTMENT</u>
REX OUTZEN	GENERAL MANAGER	ADMINISTRATION
DOUG STEWART	SULPHIDE PROJECT MANAGER	ENG/GEOLOGY
DAN BLAKEMAN	PROCESS SUPT.	PROCESSING
DICK LANGFORD	ADMINISTRATIVE MANAGER	ADMINISTRATION
MIKE NEUMANN	MANAGER LAND/LEGAL	ADMINISTRATION
JOHN WILBANKS	ENVIRONMENTAL AFFAIRS DIR.	ADMINISTRATION
PETE GOODWIN	PERSONNEL/GOV AFFAIRS DIR.	ADMINISTRATION
JIM BARRON	SR. EXPLORATION GEOLOGIST	ENG/GEOLOGY
CARL SEWARD	MINE SUPT.	ENG/GEOLOGY
TIM FOX	MINE ENGINEER	ENG/GEOLOGY
MIKE GOLLIHER	MINE ENGINEER	ENG/GEOLOGY
ROD MACLEOD	MINE GEOLOGIST	ENG/GEOLOGY
LANCE HUBBARD	SAFETY/SECURITY SUPV.	ADMINISTRATION
SCOTT WANSTEDT	SAFETY/ENVIRON ASST.	ADMINISTRATION
DEBBIE VANDERLAAN	SECRETARY/RECEPTIONIST	ADMINISTRATION
LAUREN ROSS	ACCOUNTING CLERK	ADMINISTRATION
JIM THOMPSON	PROCESS PLANT SUPERVISOR	PROCESSING
CARSON WHITLOCK	LABORATORY SUPERVISOR	LABORATORY
RAY BROSNAN	MAINTENANCE SUPERVISOR	MAINTENANCE
SYLVIA TRENTZ	RECEPTIONIST	ADMINISTRATION
JENNIFER SILBERNAGEL	ORE CONTROL TECHNICIAN	ENG/GEOLOGY
KEITH VANBUREN	ELECTRICIAN	MAINTENANCE

# BROHM MINING CORP.

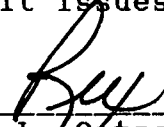
DATE: JULY 6, 1988  
TO: VENTURES TRIDENT - LAKEWOOD, COLORADO  
FOR: JAMES A. ANDERSON  
FROM: REX L. OUTZEN  
SUBJECT: GILT EDGE PROJECT - MONTHLY FLASH REPORT - JUNE, 1988

- \* Continued oxide project construction.
- \* Significant progress was made in the following areas:
  - Completed leach pad and solution pond tailings installation.
  - Commenced installation of HDPE liners in process plant, barren sump, surge pond and leach pad.
  - Completed production and initiated installation of leach pad drainrock.
  - Completed most all underground pipe installation.
  - Completed crushing plant retaining wall.
  - Commenced installation of crushing equipment including coarse ore bin, apron feeder, vibrating grizzly, 42" x 48" jaw crusher, vibrating screen, secondary hydrocone crusher, electrical trailer, operating booth and maintenance shop along with miscellaneous conveyors.
  - Installed all fresh water storage tanks.
  - Completed installation of all concrete footings, foundations and slabs.
  - Completed erection of laboratory, pumphouse and maintenance shop pre engineered buildings.
  - Completed installation of all structural steel on process plant building and commenced installation of metal siding.
  - Initiated architectural work in laboratory and process plant.

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- Installed numerous pieces of mechanical equipment including numerous pumps, tanks, zinc precipitation equipment, clarifying filters, precipitate filters and baghouses.
- Initiated installation of fabricated pipework.
- Continued electrical work in laboratory, process plant pumphouse and crusher.
- Completed installation of overhead powerline distribution system.
- Continued installation of above ground solution piping.
- Continued installation of Oro Fino pumping station.
- \* Continued preproduction mining activities.
- \* Commenced mining and stockpiling of ore.
- \* Continued sulphide project development.
- \* Continued sulphide project development drilling program.
- \* Initiated search for public relations firm.
- \* Continued development of sulphide project plan of operations and feasibility study.
- \* Executed contract mining agreement.
- \* Continued with interviewing and selecting hourly employees.
- \* Made preparations for hourly employee polygraph and physical examinations.
- \* Attended Cactus Mine Management Committee meeting.
- \* Continued working on remaining permit issues.

  
 Rex L. Outzen

RLO/dv1

# BROHM MINING CORP.

DATE: JUNE 13, 1988  
TO: VENTURES TRIDENT - LAKEWOOD, COLORADO  
FOR: JAMES A. ANDERSON  
FROM: REX L. OUTZEN  
SUBJECT: MONTHLY REPORT - GILT EDGE PROJECT - MAY, 1988

## SUMMARY

Construction of the Gilt Edge Project continued full force during the month of May. Significant progress was made in preproduction mining, the crushing area, leach pad, plant site and the Oro Fino pumping station. Along with the construction work, detail design and procurement are reaching completion and project staffing and sulphide project development work is continuing. The project is within budget but slightly behind in schedule.

## PROJECT ENGINEERING AND DESIGN

Bateman Engineers continued detail design engineering in May. A change in May to expand the leach pad to the west required additional engineering work. However, at the end of May, engineering was 95.1% complete with the remaining engineering work being the completion of as built drawings.

Procurement activities continued in May and at the end of the month, 98% of all equipment had been ordered. Only the wire samples, bench scale and emergency generator remain to be ordered.

## CONSTRUCTION

Construction of the Gilt Edge Project continued full force in May. Mine site clearing and grubbing activities were completed, preproduction stripping activities progressed, production of leach pad drain rock continued and construction of the crushing plant, retaining wall and equipment foundations were completed. In the leach pad area, screening and placement of the relic tailings was completed and the addition of lime and bentonite continued. Installation of the HDPE liner will commence early in June. In the plant site, work continued on underground piping, process plant, laboratory and pumphouse concrete building foundations and the installation of laboratory and pumphouse structural steel. Work was also completed on overhead power lines, surge pond sump area and erection of the

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plant water tanks. At the end of the month of May construction was 56% complete. Overall, the construction is going quite smoothly. However, due to the change in the process plant secondary containment system required by the state DWR and the expansion of the leach pad, the project is slightly behind in schedule. Hopefully this schedule slippage can be made up between now and the completion of construction.

#### STAFFING

Three additional employees were hired during the month of May. The three new employees are Sylvia Trentz, receptionist; Jennifer Silbernagel, ore control technician; and Keith Van Buren, electrician. Also during May, position descriptions for the remaining Gilt Edge employees were forwarded to the Job Service. Applications are now being taken and extensive interviewing will be conducted in June. Hopefully selections will be made and the majority of the remaining employees will be hired early in July.

#### PROPERTY STATUS

Land acquisition activities continued. Agreements were finalized with Homestake (3340 acres), Holbrook (4 acres) and Whiteaker (8.4 acres).

Negotiations continue with Olson, Baggaley, Aye, Dickmeyer, Gaffrey and Northwestern Metals.

Homestake initiated discussions with Brohm on a joint venture proposition northwest of the Gilt Edge Project.

Relocation of the RLC claims, Lost Gulch and Commonwealth claims continues.

#### EXPLORATION AND GEOLOGY

Due to tremendous exploration drilling activity across the United States, Brohm had difficulty obtaining drill rigs available to work on the Gilt Edge Project. However, two drilling contractors (Davis Brothers, Tonto) have accepted contracts. Davis Brothers mobilized mid May and Tonto will mobilize in June.

With Davis Brothers Drilling on site in mid May, development drilling of the sulphide resource commenced once again. However, the drill rig encountered mechanical problems during the month and therefore, little progress was made with only two holes being completed. A new engine was installed into the rig late in the month, therefore progress should improve in June.

In addition to the drilling activity, geologic mapping and sampling of the Strawberry Hill area continued. A total of 28 samples were collected and analyzed from old prospect dumps and outcrops. Twelve of the twenty eight samples analyzed contained > .02 opt Au and ranged as high as .353 opt Au. Additional work will continue in this area.

#### ADMINISTRATION

During May hourly wage and benefit proposals were prepared and approved. Position descriptions were submitted to the Job Service and positions were advertised. Applications are presently being reviewed and interviews are being conducted. Hiring of the remaining Gilt Edge employees will be completed in late June and early July.

A profit sharing proposal was prepared and submitted for review. Modifications to the proposal will be made in June.

The 1988 start up production budget was prepared and submitted for approval.

A precious metals marketing agreement was executed with Tom Campbell.

Preparations also began on a Gilt Edge Project Open House to be held October 7, 1988. An invitation list is being prepared along with ideas for momentos, catering, etc.

Doug Stewart and Pete Goodwin completed Ammerman Enterprises Electronic Media Course in May. Both individuals felt the course was excellent. Hopefully, other Brohm employees can be scheduled to attend at a later date.

#### ENVIRONMENTAL/PERMITTING

Final approval of project plans and specifications was granted by the South Dakota DWR in May.

Air quality modeling was completed and submitted to the DWR. The DWR will now review and make public notice. If no appeals are filed, the final air quality permits and certificates will be issued.

Work continued on the ground water discharge permit. Incomplete items were addressed and forwarded to the DWR. We were notified of completeness May 27th and are scheduled for the Water Quality Board hearing July 27th.

Preparations are being made to complete the final wildlife and vegetative studies and drill the final water quality monitoring wells on the property that will be acquired from the USFS through the Small Tracts Act.

Air and water quality monitoring and sampling continued.

## SULPHIDE PROJECT

Sulphide Project development work continued in May.

Mintec of Tucson, Arizona completed the sulphide project reserve estimate and initial pit design.

Minproc USA continued studying project design alternatives and continued development of the plan of operations and feasibility study. They also continued metallurgical testing for semi autogenous grinding, thickening and filtering etc for equipment sizing.

Work continued on initiating the collection of the remaining environmental baseline data. (Vegetative, Wildlife, Archaeological, etc.)

Proposals were received from five third party independent environmental contractors. The proposals are now being reviewed and two or three of the contractors will be presented to the USFS for selection.

Knight-Piesold continued geotechnical drilling and trenching in Lost Gulch in order to gather data necessary for detail tailings dam design.

Fred Lightner and Mike Brittan completed independent reviews of the past sulphide project metallurgical testwork.

Sulphide project development drilling was initiated once again.

## GENERAL

Brohm negotiated new mine contractor rates. Contracts are being prepared and will be executed in June.

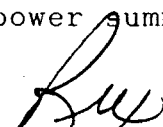
The South Dakota Mining Association abandoned the legal review of petition signatures as results of the investigation indicated the required number of valid signatures were indeed obtained.

Brohm Resources and MFC shareholders approved Brohm/MFC merger.

## JUNE ACTIVITIES

- \* Complete detail design engineering
- \* Complete procurement activities
- \* Continue preproduction stripping activities and leach pad drain rock production
- \* Complete leach pad relic tailings installation
- \* Continue engineering, fabrication and erection of crushing plant activities
- \* Initiate the installation of the leach pad and pond synthetic liners
- \* Initiate installation of the leach pad asphaltic concrete liner
- \* Finalize all contracts
- \* Continue all aspects of heap leach project construction
- \* Continue the finalization of oxide project permitting
- \* Continue development drilling program
- \* Continue environmental monitoring and baseline data gathering
- \* Complete supplemental vegetative and wildlife studies
- \* Complete supplemental water quality monitoring wells
- \* Continue sulphide project development and finalize development schedule and EIS initiation
- \* Finalize profit sharing plan
- \* Continue project staffing
- \* Finalize Gilt Edge Project Open House Plan

Attached please find the monthly manpower summary report.

  
\_\_\_\_\_  
Rex L. Gutzzen

cc: J. Barron  
D. Blakeman  
D. Langford  
M. Neumann  
P. Goodwin  
C. Seward  
D. Stewart  
J. Wilbanks



GILT EDGE PROJECT  
MANPOWER SUMMARY  
MAY, 1988

<u>DEPARTMENT</u>	<u>SALARIED</u>	<u>HOURLY</u>	<u>TOTAL</u>
ENGINEERING/GEOLOGY	7	0	7
PROCESSING	2	0	2
MAINTENANCE	1	1	2
LABORATORY	1	0	1
ADMINISTRATION	10	0	10
TOTAL	<u>21</u>	<u>1</u>	<u>22</u>

<u>MONTH</u>	<u>HIRED</u>	<u>TERMINATED</u>	<u>NET CHANGE</u>
	3	0	+ 3

PRESENT PERSONNEL

<u>NAME</u>	<u>POSITION</u>	<u>DEPARTMENT</u>
REX OUTZEN	GENERAL MANAGER	ADMINISTRATION
DOUG STEWART	SULPHIDE PROJECT MANAGER	ENG/GEOLOGY
DAN BLAKEMAN	PROCESS SUPT.	PROCESSING
DICK LANGFORD	ADMINISTRATIVE MANAGER	ADMINISTRATION
MIKE NEUMANN	MANAGER LAND/LEGAL	ADMINISTRATION
JOHN WILBANKS	ENVIRONMENTAL AFFAIRS DIR.	ADMINISTRATION
PETE GOODWIN	PERSONNEL/GOV AFFAIRS DIR.	ADMINISTRATION
JIM BARRON	SR. EXPLORATION GEOLOGIST	ENG/GEOLOGY
CARL SEWARD	MINE SUPT.	ENG/GEOLOGY
TIM FOX	MINE ENGINEER	ENG/GEOLOGY
MIKE GOLLIHER	MINE ENGINEER	ENG/GEOLOGY
ROD MACLEOD	MINE GEOLOGIST	ENG/GEOLOGY
LANCE HUBBARD	SAFETY/SECURITY SUPV.	ADMINISTRATION
SCOTT WANSTEDT	SAFETY/ENVIRON ASST.	ADMINISTRATION
DEBBIE VANDERLAAN	SECRETARY/RECEPTIONIST	ADMINISTRATION
LAUREN ROSS	ACCOUNTING CLERK	ADMINISTRATION
JIM THOMPSON	PROCESS PLANT SUPERVISOR	PROCESSING
CARSON WHITLOCK	LABORATORY SUPERVISOR	LABORATORY
RAY BROSNAN	MAINTENANCE SUPERVISOR	MAINTENANCE
SYLVIA TRENTZ	RECEPTIONIST	ADMINISTRATION
JENNIFER SILBERNAGEL	ORE CONTROL TECHNICIAN	ENG/GEOLOGY
KEITH VANBUREN	ELECTRICIAN	MAINTENANCE

# BROHM MINING CORP.

DATE: JUNE 1, 1988  
TO: VENTURES TRIDENT - LAKEWOOD, COLORADO  
FOR: JAMES A. ANDERSON  
FROM: REX L. OUTZEN  
SUBJECT: GILT EDGE PROJECT - MONTHLY FLASH REPORT - MAY, 1988

- \* Mintec (Tucson, Arizona) completed sulphide project reserve estimate.
- \* Executed precious metals marketing agreement with Tom Campbell.
- \* Continued detail design engineering.
- \* Continued project procurement activities.
- \* Continued oxide project construction with significant progress being made on the following items.
  - Placement of lime and bentonite treated tailings onto leach pad.
  - Production of leach pad drainrock.
  - Underground pipe installation.
  - Crushing plant retaining wall installation.
  - Mine site area clearing and grubbing.
  - Process plant, laboratory, shop and pumphouse concrete building foundations.
  - Crushing plant concrete foundations.
  - Laboratory, shop and pumphouse building structural steel.
  - Crushing plant complex fabrication.
  - Power supply line installation.
  - Process plant sump area HDPE liner installation.
- \* Continued land negotiation activities.
- \* Finalized agreements with Homestake, Holbrook and Whiteaker.
- \* Received DWNR approval of all oxide project plans and specifications.
- \* Completed air quality modeling and submitted information to DWNR.
- \* Continued working on remaining permit issues.

South Dakota Office: P.O. Box 485, Deadwood, South Dakota 57732  
Telephone: (605) 578-2107 Telecopier: (605) 578-1709

Head Office: #1660-999 West Hastings Street, Vancouver, B.C. V6C 2W2  
Telephone: (604) 662-8383 Telex: 04-51472 P V C VCR Telecopier: (604) 684-1329

James A. Anderson  
June 1, 1988  
Page 2

- \* Prepared 1988 start up production budget and submitted for approval.
- \* Prepared hourly payrate proposal.
- \* Preparing a profit sharing plan proposal.
- \* Doug Stewart and Pete Goodwin completed Ammerman Enterprises Electronic Media Course.
- \* Hired Sylvia Trentz-receptionist, Jennifer Silbernagel-ore control technician, and Keith Van Buren-electrician.
- \* Negotiated new mine contract rates.
- \* Prepared new sulphide project AFE and submitted for approval.
- \* Commenced sulphide project development drilling program.
- \* Sulphide project metallurgical review completed by Fred H. Lightner and Michael I. Brittan.
- \* Minproc continued development of sulphide project plan of operations and feasibility study.
- \* Continued other sulphide project development work.
- \* SDMA abandoned legal review of petition signatures as results of investigation indicate the required number of valid signatures were indeed obtained.
- \* Brohm Resources and MFC shareholders approved Brohm/MFC merger.

  
\_\_\_\_\_  
Rex L. Outzen

RLO/dv1

# BROHM MINING CORP.

DATE: MAY 16, 1988  
TO: VENTURES TRIDENT - LAKEWOOD, COLORADO  
FOR: JAMES A. ANDERSON  
FROM: REX L. OUTZEN  
SUBJECT: MONTHLY REPORT - GILT EDGE PROJECT - APRIL, 1988

## SUMMARY

Progress continued on the Gilt Edge Project during the month of April. Finalization of the detail design engineering continued, equipment procurement continued, contractors mobilized, construction was initiated, project staffing continued and the sulphide project development was initiated once again.

## PROJECT ENGINEERING AND DESIGN

Bateman Engineering continued detail design engineering and at the end of April, were 93% complete. Only three drawings are left to be issued for construction.

Procurement activities continued in April. At the end of the month, approximately 90% of all equipment had been ordered. Bateman is now placing great emphasis on expediting. Verification of shipping dates, delivery dates and tracking deliveries through truck line terminals is being watched closely to insure equipment deliveries do not negatively impact the construction schedule.

Mr. Robert Sinclair, Construction Manager, resigned during the month of April. Grant Shelton was selected to replace Mr. Sinclair. Mr. Shelton is very familiar with the project and no problems are anticipated by the change in construction management.

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## CONSTRUCTION

Construction of the oxide project proceeded full force in April. Final grading of the leach pad and crusher site was completed. Mining, crushing and screening the leach pad drain rock was initiated. The general contractor (TIC) mobilized and commenced underground pipe installation and initiated construction of the fire water tank house, laboratory and process plant facilities. Fisher Industries (General Steel and Supply) continued fabrication of the crushing circuit. D.H. Blattner & Sons commenced screening and placement of the relic tailings. All was proceeding quite well at the end of the month. However, wet weather conditions continued to delay the placement of the relic tailings which could have a significant impact to the overall project schedule.

## STAFFING

Several staffing changes took place during April. Mary Winchester resigned effective April 8, 1988. Lauren Ross, accounting clerk; Carson Whitlock, laboratory supervisor; Ray Brosnahan, maintenance supervisor; and Jim Thompson, process plant supervisor all commenced work in April. In May a receptionist, ore control technician and an electrician will be hired.

## PROPERTY STATUS

Land acquisition activities continued. An agreement was reached with Homestake in which Homestake will convey to Brohm 1 patented claim (Gold & Silver, 20 acres) and 166 unpatented claims (3320 acres) and abandon 7 unpatented claims within our project area. The deal was executed early in May.

Terms were also agreed upon for Brohm to acquire Holbrook's 4 acre interest in the Highland Mary for \$6000.00. A purchase contract has been executed with a closing scheduled before the end of May.

Negotiations continue with Olson, Holbrook, Whiteaker, Dickmeyer, Aye, Northwestern Metal and Gaffrey.

## EXPLORATION & GEOLOGY

During April geologic and assay cross sections were updated and drafted. Along with this work the plan for the continued sulphide development drilling was completed and was incorporated into the sulphide project development AFE. Drilling contractors were contacted and will mobilize and commence drilling by mid May. In addition, Dick Nielsen commenced mapping and sampling of the Strawberry Ridge area and state leased claims in Section 36.

## ADMINISTRATION

During April the employment application forms, employee handbook and safety handbook were all received from the printers for distribution.

Payrate and benefit surveys were performed and an hourly wage and benefit proposal was prepared.

Job descriptions and responsibilities were prepared for information the Job Service will utilize in assisting Brohm with locating and hiring the necessary Gilt Edge hourly employees.

Performance appraisal forms were prepared for both salaried and hourly personnel.

Initial contact was made with Mr. Tom Campbell concerning the marketing of dore once Gilt Edge is in production. Terms have been agreed to and a marketing agreement is now being drawn up for execution.

Mountain States Employers Council of Denver, Colorado conducted a Union Free workshop in Deadwood which all Brohm employees attended during April.

## ENVIRONMENTAL/PERMITTING

The Board of Minerals and Environment approved the Gilt Edge Project hearing findings of fact and conclusions of law at the April Board meeting.

Applications have all been submitted for the ground water discharge permit, dam safety permit, air quality permit, solid waste permit and sanitary landfill permit. Air quality modeling is being performed by Dr. Gail Biggs. The modeling will be presented to the state May 18th and the air quality permits for the crushing plant, refining and solution heater should be obtained shortly thereafter. Preparations are now being made for a July hearing for the ground water discharge permit. All information has been forwarded to the state.

Plans and specifications were approved by the state DWR in April. This approval now provides everything necessary for construction of the heap leach facilities.

Environmental monitoring (air, water) and meteorological data gathering continued.

## SULPHIDE PROJECT

Sulphide project development work was continued in April. Mintec of Tucson, Arizona was commissioned to prepare a

new mine model using the latest drilling information and geologic interpretation. Once the model is prepared, Mintec will prepare the latest Gilt Edge Project mineable reserve estimate. The report should be out before the end of May.

Minproc is presently preparing a USFS Plan of Operations. Once the plan of operations is completed, a  $\pm$  20% sulphide project feasibility study will be completed including an accurate estimate of reserves, capital and operating costs.

Now that the Homestake agreement has been completed, Knight Piesold will conduct the necessary geotechnical field studies so that detailed tailings dam design can be completed.

Sulphide project metallurgical testwork is presently being reviewed by Fred Lightner (metallurgical consultant) and by Mike Britain of Bateman Engineers. The review will include recommendations for future testwork and process flowsheet finalization.

Five third party contractors have been identified and are being reviewed. The successful party will prepare the sulphide project EIS for the USFS.

Meetings were held with county, state and federal regulatory agencies in April. The agencies were updated on Brohm's plans concerning the sulphide project development. All parties have agreed to a joint review with the USFS being the lead agency.

Finally, drilling contractors were contacted and will be on site sometime mid May to proceed with the sulphide project development drilling program.

#### GENERAL

Presented geologic data and reserve information to Mervin Jones and Wynn Davies, Australian Diversified Resources Ltd.

Attended SDMA press conferences in Sioux Falls, Aberdeen and Rapid City in order to kick off the campaign to defeat the two anti mining initiatives.

#### MAY ACTIVITIES

During the month of May, work will continue on the following list of activities.

- \* Complete detail design engineering.
- \* Complete procurement activities.
- \* Continue clearing and grubbing activities in the pit areas.

- \* Continue preproduction stripping activities and leach pad drain rock production.
- \* Continued placement of treated relic tailings onto leach pad.
- \* Continue engineering, fabrication and erection of crushing plant facilities.
- \* Initiate the installation of the leach pad and pond synthetic liners.
- \* Finalize contracts.
- \* Continue all aspects of heap leach project construction.
- \* Continue the finalization of oxide project permitting.
- \* Continue development of company policies and procedures.
- \* Continue sulphide project development.
- \* Finalize and submit sulphide project development AFE.
- \* Continue environmental monitoring and baseline data gathering.
- \* Commence development drilling program.
- \* Finalize dore marketing agreement.
- \* Finalize payrates and profit sharing plan.
- \* Continue project staffing.
- \* Renegotiate new contract mining rates.

Attached please find the monthly manpower summary report.

  
 Rex L. Outzen

RLO/dvl

Attachment

cc: J. Barron  
 D. Blakeman  
 D. Langford  
 M. Neumann  
 P. Goodwin  
 C. Seward  
 D. Stewart  
 J. Wilbanks



GILT EDGE PROJECT  
MANPOWER SUMMARY  
APRIL, 1988

<u>DEPARTMENT</u>	<u>SALARIED</u>	<u>HOURLY</u>	<u>TOTAL</u>
ENGINEERING/GEOLOGY	6	0	6
PROCESSING	2	0	2
MAINTENANCE	1	0	1
LABORATORY	1	0	1
ADMINISTRATION	9	0	9
TOTAL	<u>19</u>	<u>0</u>	<u>19</u>

<u>MONTH</u>	<u>HIRED</u>	<u>TERMINATED</u>	<u>NET CHANGE</u>
	4	1	+ 3

PRESENT PERSONNEL

<u>NAME</u>	<u>POSITION</u>	<u>DEPARTMENT</u>
REX OUTZEN	GENERAL MANAGER	ADMINISTRATION
DOUG STEWART	SULPHIDE PROJECT MANAGER	ENG/GEOLOGY
DAN BLAKEMAN	PROCESS SUPT.	PROCESSING
DICK LANGFORD	ADMINISTRATIVE MANAGER	ADMINISTRATION
MIKE NEUMANN	MANAGER LAND/LEGAL	ADMINISTRATION
JOHN WILBANKS	ENVIRONMENTAL AFFAIRS DIR.	ADMINISTRATION
PETE GOODWIN	PERSONNEL/GOV AFFAIRS DIR.	ADMINISTRATION
JIM BARRON	SR. EXPLORATION GEOLOGIST	ENG/GEOLOGY
CARL SEWARD	MINE SUPT.	ENG/GEOLOGY
TIM FOX	MINE ENGINEER	ENG/GEOLOGY
MIKE GOLLIHER	MINE ENGINEER	ENG/GEOLOGY
ROD MACLEOD	MINE GEOLOGIST	ENG/GEOLOGY
LANCE HUBBARD	SAFETY/SECURITY SUPV.	ADMINISTRATION
SCOTT WANSTEDT	SAFETY/ENVIRON ASST.	ADMINISTRATION
DEBBIE VANDERLAAN	SECRETARY/RECEPTIONIST	ADMINISTRATION
LAUREN ROSS	ACCOUNTING CLERK	ADMINISTRATION
JIM THOMPSON	PROCESS PLANT SUPERVISOR	PROCESSING
CARSON WHITLOCK	LABORATORY SUPERVISOR	LABORATORY
RAY BROSNAHAN	MAINTENANCE SUPERVISOR	MAINTENANCE

# BROHM MINING CORP.

DATE: MAY 2, 1988  
TO: VENTURES TRIDENT - LAKEWOOD, COLORADO  
FOR: JAMES A. ANDERSON  
FROM: REX L. OUTZEN  
SUBJECT: GILT EDGE PROJECT - MONTHLY FLASH REPORT - APRIL, 1988

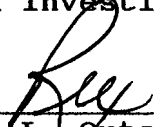
- \* Minproc completed final draft of Gilt Edge Project Oxide Report.
- \* Commissioned Minproc to reinitiate sulphide project development including completion of metallurgical testing, preparation of plan of operations and  $\pm$  20% feasibility study.
- \* Prepared sulphide project development AFE and prepared upcoming drilling program.
- \* Held meetings with county, state and federal officials concerning sulphide project development and EIS.
- \* Commissioned Mintec (Tucson, Arizona) to complete sulphide project reserve estimate.
- \* Continued detail project design engineering.
- \* Continued project procurement activities.
- \* Commenced oxide project construction.
- \* Grant Shelton replaced Bob Sinclair as construction manager.
- \* Received Board of Minerals and Environment approval of hearing Findings of Facts and Conclusion of Law.
- \* Received DWNR approval of project plans and specifications.
- \* Commissioned Dr. Gale Biggs to complete air quality monitoring study to fulfill air quality operating permit requirements.
- \* Made arrangements for Doug Stewart and Pete Goodwin to attend an Electronic Media Training Course.
- \* All employees attended Mountain States Employers Council Union Free Workshop.

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James A. Anderson  
Ventures Trident  
May 2, 1988  
Page 2

- \* Initiated negotiations with precious metals marketing consultant.
- \* Continued land acquisition activities.
- \* Continued negotiations with Homestake on Strawberry Hill and Lost Gulch claims. Agreement should be finalized early in May.
- \* Provided George Ireland information for the MFC merger information circular.
- \* Presented geologic data and reserve information to Wynn Davis and Mervin Jones, Australian Diversified Resources Ltd.
- \* Commissioned Fred Lightner to review and make recommendations on sulphide project metallurgical testwork.
- \* Hired Carson Whitlock - Lab Supervisor, Jim Thompson - Process Plant Supervisor and Ray Brosnahan - Maintenance Supervisor during April.
- \* SDMA initiated campaign to defeat mining initiatives and are continuing the legal review and investigation.

  
\_\_\_\_\_  
Rex L. Outzen

RLO/dvl

# **BROHM MINING CORP.**

**DATE:** APRIL 11, 1988  
**TO:** VENTURES TRIDENT - LAKEWOOD, COLORADO  
**FOR:** JAMES A. ANDERSON  
**FROM:** REX L. OUTZEN  
**SUBJECT:** MONTHLY REPORT - GILT EDGE PROJECT - MARCH, 1988

## **SUMMARY**

The month of March proved to be very successful for the Gilt Edge Project. Numerous meetings were held with the South Dakota DWNr and on March 17, 1988, the Board of Minerals and Environment unanimously approved the Gilt Edge Project Mining and Milling permit amendment application. In addition, finalization of the detail design engineering continued, equipment procurement continued, letters of intent with major contractors were signed, project staffing continued and project financing proceeded to where it is nearing completion.

## **PROJECT ENGINEERING AND DESIGN**

Bateman Engineering continued detail design engineering. By the end of March only a few drawings such as instrument connections, piping isometrics, architectural and a few leach pad details were left to be completed. Procurement proceeded extremely well in March. Most all equipment has now been ordered and deliveries should coincide well with the construction schedule. Letters of intent were issued to The Industrial Company (TIC), the general contractor, and Gagle Company, Inc., the flexible membrane liner contractor. With these two contractors, everything is now ready to proceed with construction which will commence full force April 18, 1988.

## **CONSTRUCTION**

Due to the heavy snowfall, very little earthwork was completed during the month. However, mobilization of the temporary crushing and screening equipment was initiated and preparations were made so that final earthwork and construction can proceed full force in April. The following is a list of contractors who will be constructing the Gilt Edge Project.

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COMPANY

DUTIES

The Industrial Company (TIC)  
Steamboat Springs, Colorado

General Contractor responsible  
for most all plant general  
construction including piping,  
concrete and installation of  
mechanical equipment.

Gagle Company Inc.  
Tulsa, Oklahoma

Lining Contractor responsible  
for installation of leach pad  
and pond flexible membrane  
liners.

General Steel & Supply  
(formerly Fisher Industries)  
Dickinson, North Dakota

Contractor responsible for  
design, fabrication and  
erection of permanent skid  
mounted crushing plant.

D.H. Blattner & Sons  
Avon, Minnesota

Earthwork Contractor  
responsible for all site  
earthwork and preproduction  
stripping.

Tom Lein/Hills Materials  
Spearfish, South Dakota

Subcontractor responsible for  
tailings liner material and  
production of leach pad leak  
detection drainrock.

Ainsworth-Benning Construction  
Spearfish, South Dakota

Subcontractor responsible for  
installation of pre-fabricated  
buildings.

Baumgartner's Electrical  
Contracting  
Rapid City, South Dakota

Subcontractor responsible for  
electrical installation.

Wolff's Plumbing & Heating  
Spearfish, South Dakota

Sucontractor responsible for  
heating, ventilation and air  
conditioning installation.

### STAFFING

There were no changes in personnel during the month of March. However, Mary Winchester, accounting clerk, gave notice that she was leaving to further her education with her last day being April 8, 1988. Lauren Ross will be hired to replace Mary and will commence work April 4, 1988. In addition, offers of employment were made and accepted by Carson Whitlock - Laboratory Supervisor, Ray Brosnahan - Maintenance Supervisor, and to Jim Thompson - Plant Supervisor. These three will commence work around the middle of April.

### PROPERTY STATUS

Land acquisition for the Gilt Edge Project continued with much success in March. A lease/option agreement was finalized with Deadbroke Mining for their 100% interest in Gold Standard, Mountain Echo claims, 40 acres and for their 50% interest in the Specie Payment claim, 10 acres.

The USFS issued their decision on the Small Tracts Act property on March 25, 1988. There is now a 45 day appeal period. Once completed and after completion of appraisals and survey boundaries, deeds will be exchanged and the important small tracts acquisition will be complete.

Negotiations with Homestake continued. Terms were agreed upon for Brohm to take title to the Strawberry Ridge and Lost Gulch properties with Homestake reserving all deep rights. Homestake also agreed to sell to Brohm the Gold and Silver patented claim for \$6000 to \$8000. Homestake attorneys are presently preparing an agreement which can hopefully be finalized late in April or early in May.

In addition, negotiations continue with Olson, Holbrook, Baggaley, Dickmeyer, Northwestern Metal, Whiteaker, Gaffrey, Plain and Prairy Implement and Willis Aye.

### EXPLORATION AND GEOLOGY

On March 1, the last of 13 reverse circulation drill holes was completed and all drill rigs were demobilized by March 3, 1988. The remainder of the month was used to update the geologic and assay cross sections with the new drilling information. Once this was completed, a plan for the continuation of the sulphide development drilling program was prepared along with a plan to evaluate additional exploration targets. This plan will be incorporated into the new sulphide project AFE which will be submitted late in April. Continuation of the sulphide development drilling program will begin once again early in May.

## ADMINISTRATION

Work continued on the preparation of policies and procedures, position descriptions, personnel forms, salary administration and other personnel matters during the month. The employment application form, the employee handbook and the safety handbook were all completed and will be sent to the printer for final printing in April

Accounting continues to monitor committed costs against available funds. At the end of March, only approximately \$500,000 remained uncommitted. With the upcoming MFC merger, final financing should be completed in a timely fashion so as not to interfere with oxide or sulphide project development.

## ENVIRONMENTAL/PERMITTING

Numerous meetings with expert witnesses, and the expert witnesses and DWNR staff, were attended early in March to review the Mining and Milling Permit amendment application and finalize conditions so that Brohm and the DWNR staff would be in agreement at the hearing before the Board of Minerals and Environment.

The Gilt Edge Project permit amendment application was heard on March 16 and 17 and the South Dakota Board of Minerals and Environment unanimously approved the Mining and Milling Permit amendment. The hearing findings of fact will be approved during the April Board of Minerals and Environment meeting at which time Brohm will proceed full force with the construction of the heap leaching facilities.

A ground water discharge permit, landfill permit and air quality operating permits remain to be approved. Work is now being performed on these items and all permits should be in hand in plenty of time to commence timely operations.

## SULPHIDE PROJECT

Sulphide project development work was temporarily halted this month due to the timing of project financing. However, baseline data gathering, land negotiations and geological work other than actual drilling continued. Cross sections were updated and plans were formalized for the continuation of the drilling program and for preparation of a plan of operations and over all project development.

## GENERAL

Presented geologic data and reserve information to Wynn Davis, Australian Diversified Resources Ltd. and to Richard Ward, Mace Westpac Inc.

Continued providing information to Minproc and to Parcel Mauro to facilitate completion of project reports and finalized MFC merger.

South Dakota Mining Association is proceeding with signature review and major campaign in order to defeat mining initiatives.

#### APRIL ACTIVITIES

During the month of April work will continue on the following list of activities.

- \* Complete detail design engineering.
- \* Complete procurement activities.
- \* Commence heap leach project construction.
- \* Finalize contracts.
- \* Initiate continuation of sulphide project development.
- \* Continue environmental monitoring and baseline data gathering.
- \* Continue finalization of oxide project permitting.
- \* Continue development of company policies and procedures.
- \* Initiate production of leach pad drainrock materials and commence production and placement of leach pad tailings material.
- \* Continue engineering and fabrication of crushing plant facilities.
- \* Initiate preproduction stripping.
- \* Having completed final pit design and ore/waste schedules, negotiate new contract mining rates.
- \* Finalize sulphide project development AFE.
- \* Finalize salary administration and hourly payrates.
- \* Continue project staffing.

Attached please find the monthly manpower summary report.

  
\_\_\_\_\_  
Rex L. Outzen

RLO/dvl

cc: J. Barron, D. Blakeman, D. Langford, M. Neumann,  
P. Goodwin, C. Seward, D. Stewart, J. Wilbanks



GILT EDGE PROJECT  
MANPOWER SUMMARY  
FEBRUARY, 1988

<u>DEPARTMENT</u>	<u>SALARIED</u>	<u>HOURLY</u>	<u>TOTAL</u>
ENGINEERING/GEOLOGY	6	0	6
PROCESSING	1	0	1
MAINTENANCE	0	0	0
LABORATORY	0	0	0
ADMINISTRATION	9	0	9
TOTAL	<u>16</u>	<u>0</u>	<u>16</u>

<u>MONTH</u>	<u>HIRED</u>	<u>TERMINATED</u>	<u>NET CHANGE</u>
	0	0	0

PRESENT PERSONNEL

<u>NAME</u>	<u>POSITION</u>	<u>DEPARTMENT</u>
REX OUTZEN	GENERAL MANAGER	ADMINISTRATION
DOUG STEWART	MINE SUPT.	ENG/GEOLOGY
DAN BLAKEMAN	PROCESS SUPT.	PROCESSING
DICK LANGFORD	ADMINISTRATIVE MANAGER	ADMINISTRATION
MIKE NEUMANN	MANAGER LAND/LEGAL	ADMINISTRATION
JOHN WILBANKS	ENVIRONMENTAL AFFAIRS DIR.	ADMINISTRATION
PETE GOODWIN	PERSONNEL/GOV AFFAIRS DIR.	ADMINISTRATION
JIM BARRON	SR. EXPLORATION GEOLOGIST	ENG/GEOLOGY
CARL SEWARD	SENIOR PROJECT ENGINEER	ENG/GEOLOGY
TIM FOX	MINE ENGINEER	ENG/GEOLOGY
MIKE GOLLIHER	MINE ENGINEER	ENG/GEOLOGY
ROD MACLEOD	MINE GEOLOGIST	ENG/GEOLOGY
LANCE HUBBARD	SAFETY/SECURITY SUPV.	ADMINISTRATION
SCOTT WANSTEDT	SAFETY/ENVIRON ASST.	ADMINISTRATION
DEBBIE VANDERLAAN	SECRETARY/RECEPTIONIST	ADMINISTRATION
MARY WINCHESTER	ACCOUNTING CLERK	ADMINISTRATION

# **BROHM MINING CORP.**

**DATE: APRIL 6, 1988**  
**TO: VENTURES TRIDENT, LAKEWOOD, COLORADO**  
**FOR: JAMES A. ANDERSON**  
**FROM: REX L. OUTZEN**  
**SUBJECT: GILT EDGE PROJECT - MONTHLY FLASH REPORT - MARCH, 1988**

- \* **DISCONTINUED SULPHIDE PROJECT DEVELOPMENT DRILLING PROGRAM**
- \* **UPDATED GEOLOGIC DATA AND CROSS SECTIONS WITH NEW DRILLING INFORMATION**
- \* **CONTINUED DETAIL PROJECT DESIGN ENGINEERING**
- \* **CONTINUED PROCUREMENT ACTIVITIES AND AT THE END OF MARCH, PROCUREMENT APPROXIMATELY 90% COMPLETE**
- \* **EVALUATED BID PACKAGES AND ISSUED LETTERS OF INTENT TO THE INDUSTRIAL COMPANY, GENERAL CONTRACTOR, AND GAGLE CO. INC., LINING CONTRACTOR**
- \* **OXIDE PROJECT CONSTRUCTION WILL COMMENCE MID APRIL**
- \* **RECEIVED UNANIMOUS APPROVAL OF THE MINING AND MILLING PERMIT AMENDMENT FROM THE SOUTH DAKOTA BOARD OF MINERALS AND ENVIRONMENT.**
- \* **CONTINUED LAND ACQUISITION ACTIVITIES**
- \* **FINALIZED AGREEMENTS WITH BORSCH/FAHRNI - 430 ACRES, MANN/LIMBO - 5 LOST GULCH PLACER CLAIMS AND WITH DEADBROKE MINING - 40 ACRES**
- \* **CONTINUED NEGOTIATIONS WITH HOMESTAKE AND AGREED TO TERMS AND CONDITIONS ON STRAWBERRY HILL AND LOST GULCH PROPERTIES**
- \* **INITIATED QUIET TITLE ACTION ON PORTLAND, LINA AND OCCIDENTAL CLAIMS**
- \* **PROVIDED LAND AND TITLE INFORMATION TO PARCEL AND MAURO FOR PROPOSED MFC LOAN.**
- \* **COMPLETED OXIDE PROJECT PIT DESIGN AND ORE WASTE SCHEDULES**

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JAMES A. ANDERSON  
VENTURES TRIDENT  
APRIL 6, 1988  
PAGE 2

- \* CONTINUED PROVIDING ASSISTANCE TO MINPROC, USA IN PREPARING GILT EDGE PROJECT DOCUMENT
- \* MINTEC INC OF TUCSON, ARIZONA WAS CONTRACTED TO PREPARE SULPHIDE PROJECT BLOCK MODEL AND RESERVE ESTIMATE
- \* PRESENTED GEOLOGIC DATA AND RESERVE INFORMATION TO WYNN DAVIES, AUSTRALIAN DIVERSIFIED RESOURCES LTD. AND TO RICHARD WARD, MACE WESTPAC INC.
- \* SOUTH DAKOTA MINING ASSOCIATION IS PROCEEDING WITH SIGNATURE REVIEW AND MAJOR CAMPAIGN IN ORDER TO DEFEAT MINING INITIATIVES.
- \* MADE OFFERS OF EMPLOYMENT TO THREE NEW EMPLOYEES WHO HAVE ACCEPTED AND WILL FILL THE POSITIONS OF LAB, MAINTENANCE AND PROCESS SUPERVISOR BY MID APRIL.

  
\_\_\_\_\_  
REX L. OUTZEN

RLO/dvl

DATE: MARCH 9, 1988  
TO: VENTURES TRIDENT - LAKEWOOD, COLORADO  
FOR: JAMES A. ANDERSON  
FROM: REX L. OUTZEN  
SUBJECT: MONTHLY REPORT - GILT EDGE PROJECT - FEBRUARY, 1988

#### SUMMARY

During the month of February progress continued on the Gilt Edge Project. The Lawrence County CUP amendment was approved and meetings concerning the state mining and milling permit amendment were conducted with the DWNR. Minor earthwork activities continued in the crusher area, as well as detail design engineering and equipment procurement. Sulphide project development work was curtailed late in February due to delays in the completion of project financing.

#### PROJECT ENGINEERING AND DESIGN

Bateman Engineering received certain certified equipment and instrumentation drawings during the month. By doing so they were able to pretty much complete the detail design engineering for the oxide project. Bateman also continued evaluation of equipment and construction bid packages in preparation for awarding contracts and equipment selection. Procurement of major long lead equipment items was also conducted during the month. By the end of February, construction schedules have been completed and everything is in good order to commence construction April 1st in order to commence production in August.

#### CONSTRUCTION

Very little earthwork was conducted in February. However, D.H. Blattner and Sons did make all preparations necessary to mobilize crushing and screening equipment by the end of March. This equipment will be used to prepare both the tailings soil layer and the leach pad LCRS rock drainage layer. This work will be initiated late in February or early in March.

#### STAFFING

Mike Golliher, mine engineer, was hired during February and is assisting in the development of the finalized pit designs and ore waste schedules.

## PROPERTY STATUS

Again this month acquisition of additional property for the Gilt Edge Project continued. Numerous agreements were finalized in February, including the following.

- \* Rose Borsch - Jeri claim 20 acres
- \* John and Jeri Fahrni - Boca Chica, Reuben John, Rosa and Cleo claims 42 acres
- \* Warren Mann - 4 Lost Gulch placer claims 160 acres
- \* Betty Limbo - Lost Gulch placer claim 20 acres
- \* Borsch/Fahrni - 420 acres near Galena

In addition, negotiations continue with Holbrook, Olson, Deadbroke Mining, Gaffrey, Dickmeyer, Baggaley, Whiteaker, Aye, Row, Northwest Metals and Homestake.

Safeco has determined that they will provide title insurance for both surface and minerals of properties in the permit area. The policy will be for \$20,000,000 and will cost \$28,000. The title insurance policy should be concluded next month.

## EXPLORATION AND GEOLOGY

The sulphide project development drilling program continued in February with 12 of the 13 deep holes completed during the month. Total footage drilled year to date in the 13 holes is 17,115 feet for an average of 1316'. A drill hole location map and assay results are attached. So far the drilling has shown that the present geologic model is quite accurate and significant intercepts of ore grade mineralization were encountered. Due to a delay in the completion of the project financing, the drilling program was discontinued late in February. The interruption in drilling will be used to update the geologic and assay cross sections and modify the drill program if necessary in the future.

## ADMINISTRATION

Work continued on the preparation of policies and procedures, position descriptions, personnel forms and other personnel matters during February. Accounting systems to track capital commitments, actual payments, cash flow, and disbursements are all in place and working properly.

## ENVIRONMENTAL/PERMITTING

The Lawrence County Conditional Use Permit amendment was approved by the Lawrence County Commissioners and Planning and Zoning Commission on February 10th.

With the CUP amendment now complete, all efforts have been placed on the state mining and milling permit. Reports on hydrology, waste rock and spent ore characterization, attenuation and geotechnical aspects were completed and submitted to the DWNR. Meetings to discuss the permit amendment application were held with the DWNR staff. So far the staff appears to support our amendment. Further meetings are scheduled with the DWNR staff to discuss proposed conditions and answer any questions or comments they have concerning the amendment. The state mining and milling permit hearing is scheduled for March 16, 1988 in Pierre.

Several Brohm staff members attended the Wharf permit amendment hearing in February. The hearing went very smooth and Wharf was granted approval to proceed with on/off leach pad operations. This should help pave the way for approval of Brohm's amendment.

A hearing before the Water Quality Board was held March 2 concerning water appropriation at Gilt Edge. Even though Dave Sandage appeared as a intervenor, the hearing went extremely well. Brohm was granted an increase in water appropriation from .25 CFS to 1.0 CFS on both the Oro Fino ground water appropriation and the Bear Butte Creek surface water appropriation.

#### SULPHIDE PROJECT

Sulphide project development work continued in February. Metallurgical testing continued with encouraging results. A flowsheet consisting of grinding to minus 35 mesh, gravity concentration, agitation leach of the gravity tails and agitation leach of the reground gravity concentrates results in recoveries of better than 80%. This flowsheet would also result in a decrease in capital and operating costs. The testwork needs to be verified, but again, looks extremely encouraging.

Again, as mentioned earlier, the sulphide project development drilling program was continued up until the end of February and then discontinued. This, along with most other sulphide project development work, will cease except for metallurgical testing and baseline environmental monitoring until financing is secure.

#### GENERAL

Presented geologic data and reserve information and potential to MFC, Alfred Bunting and Co. and First Marathon Security Limited.

Providing a significant amount of assistance to Minproc USA in preparing the Gilt Edge Project report.

Nick Meinhardt and the Citizen's Law Center obtained the required signatures and filed the anti mining petitions with the Secretary of State.

South Dakota Mining Association has retained attorneys to try and invalidate the petitions.

#### MARCH ACTIVITIES

During the month of March, work will continue on the following list of activities.

- \* Complete detail design engineering
- \* Continue bid document preparation, bid evaluation and procurement activities
- \* Attend state mining and milling permit amendment hearing and obtain state mining and milling permit amendment approval
- \* Obtain DWNR approval of detail design plans and specifications
- \* Update geologic maps and cross sections with new drill hole information
- \* Revise sulphide project development drilling program
- \* Continue land negotiations and property acquisition
- \* Continue environmetnal monitoring
- \* Continue development of company policies and procedures
- \* Initiate investigation of the use of polygraph as a security and employment tool
- \* Complete optimized oxide pit design and ore/waste scheduling
- \* Renegotiate mine contract due to increased ore/waste volumes
- \* Initiate screening of relic tailings and prepare for leach pad liner
- \* Initiate crushing and screening of leach pad drain rock layer
- \* Initiate construction of the oxide project heap leach and process plant facilities
- \* Finalize all permits

Attached please find the monthly manpower summary report.

  
Rex L. Outzen

RLO/dvl

**Attachments**

cc: D. Stewart  
D. Blakeman  
M. Neumann  
J. Wilbanks  
D. Langford  
C. Seward  
J. Barron  
P. Goodwin



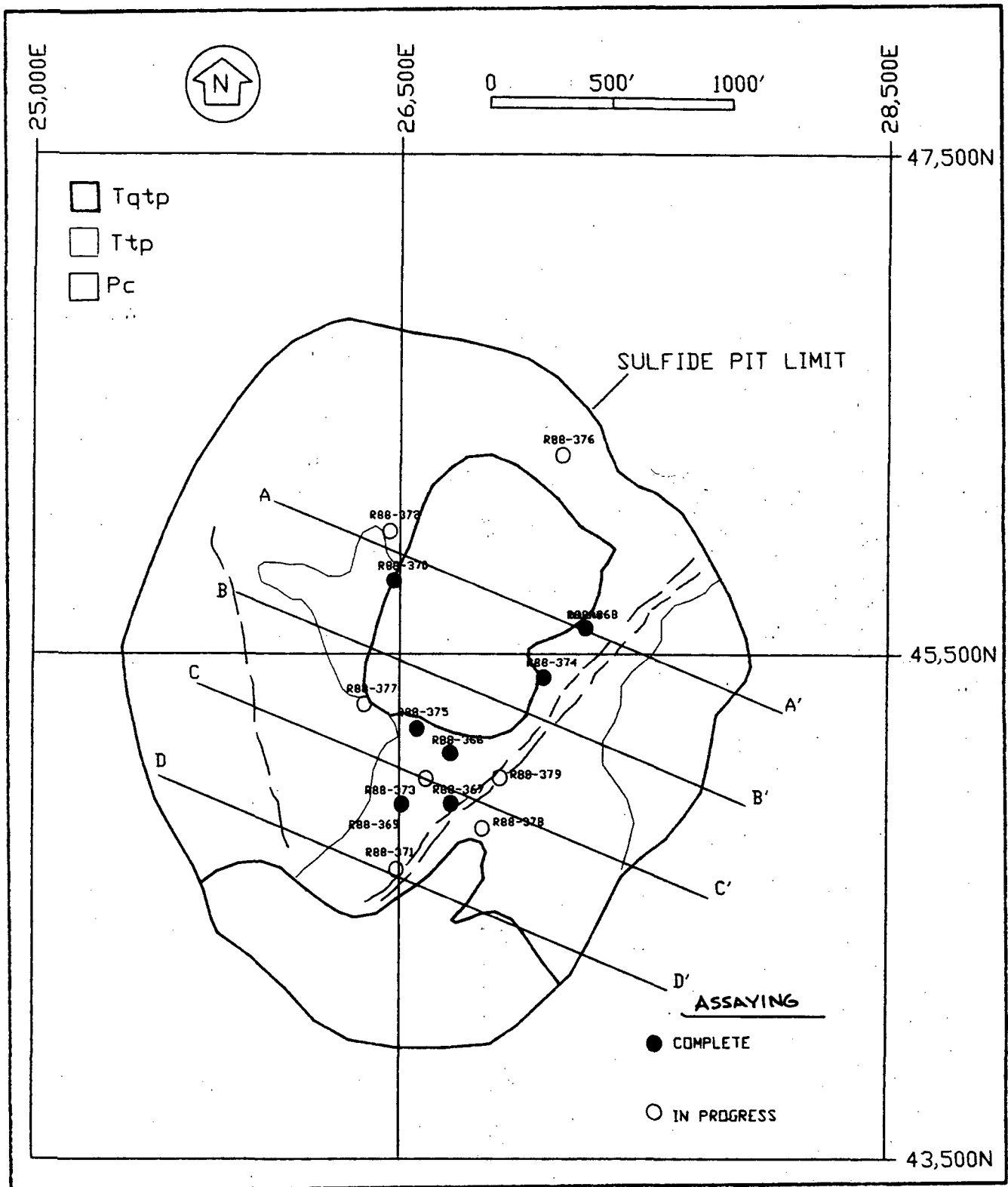
GILT EDGE PROJECT  
MANPOWER SUMMARY  
FEBRUARY, 1988

<u>DEPARTMENT</u>	<u>SALARIED</u>	<u>HOURLY</u>	<u>TOTAL</u>
ENGINEERING/GEOLOGY	6	0	6
PROCESSING	1	0	1
MAINTENANCE	0	0	0
LABORATORY	0	0	0
ADMINISTRATION	9	0	9
TOTAL	<u>16</u>	<u>0</u>	<u>16</u>

<u>MONTH</u>	<u>HIRED</u>	<u>TERMINATED</u>	<u>NET CHANGE</u>
	1	0	1

PRESENT PERSONNEL

<u>NAME</u>	<u>POSITION</u>	<u>DEPARTMENT</u>
REX OUTZEN	GENERAL MANAGER	ADMINISTRATION
DOUG STEWART	MINE SUPT.	ENG/GEOLOGY
DAN BLAKEMAN	PROCESS SUPT.	PROCESSING
DICK LANGFORD	ADMINISTRATIVE MANAGER	ADMINISTRATION
MIKE NEUMANN	MANAGER LAND/LEGAL	ADMINISTRATION
JOHN WILBANKS	ENVIRONMENTAL AFFAIRS DIR.	ADMINISTRATION
PETE GOODWIN	PERSONNEL/GOV AFFAIRS DIR.	ADMINISTRATION
JIM BARRON	SR. EXPLORATION GEOLOGIST	ENG/GEOLOGY
CARL SEWARD	SENIOR PROJECT ENGINEER	ENG/GEOLOGY
TIM FOX	MINE ENGINEER	ENG/GEOLOGY
MIKE GOLLIHER	MINE ENGINEER	ENG/GEOLOGY
ROD MACLEOD	MINE GEOLOGIST	ENG/GEOLOGY
LANCE HUBBARD	SAFETY/SECURITY SUPV.	ADMINISTRATION
SCOTT WANSTEDT	SAFETY/ENVIRON ASST.	ADMINISTRATION
DEBBIE VANDERLAAN	SECRETARY/RECEPTIONIST	ADMINISTRATION
MARY WINCHESTER	ACCOUNTING CLERK	ADMINISTRATION



CURRENT STATUS - SULFIDE INFILL DRILL HOLES  
 GILT EDGE, SOUTH DAKOTA  
 FEBRUARY 29, 1988

**TABLE 1**  
**CURRENT DRILLING STATUS**

<u>HOLE #</u>	<u>T.D.</u>	<u>ASSAY STATUS</u>	<u>ASSAY INTERVALS PENDING</u>
R88-366	1,385'	COMPLETE *	
R88-367	1,500'	COMPLETE	
R88-368	1,455'	COMPLETE	
R88-369	1,320'	COMPLETE	
R88-370	1,470'	COMPLETE	
R88-371	1,320'	PARTIAL	930 - 1215
R88-372	1,055'		0 - 1055
R88-373	1,360'	PARTIAL	0 - 265 / 345 - 1360
R88-374	1,300'	COMPLETE	
R88-375	1,415'	COMPLETE	
R88-376	1,020'	---	0 - 1020
R88-377	1,305'	---	0 - 1305
R88-378	1,210'	---	0 - 1210
<hr/> 13	<hr/> 17,115'	<hr/> 10,965	<hr/> 6,155'

\* Rerun assays now being done by Bondar-Clegg

# ASSAY RESULTS $\geq$ .02 OPT AU (3/3/88)

R88-366 T.D. = 1385'  
40- 600' (560') @ .052

R88-367 T.D. = 1500'  
200 - 235 ( 35') @ .047  
275 - 370 ( 95') @ .045  
415 - 685 (270') @ .055  
950 - 965 ( 15') @ .021  
1040 - 1080 ( 40') @ .024  
1120 - 1315 (195') @ .062  
1335 - 1405 ( 70') @ .029  
720' @ .050 (W.A.G.)

R88-368 T.D. = 1455'  
390 - 505 (115') @ .055  
525 - 730 (205') @ .077  
765 - 925 (160') @ .046  
945 - 965 ( 20') @ .022  
1000 - 1080 ( 80') @ .032  
1180 - 1250 ( 70') @ .026  
1365 - 1385 ( 20') @ .035  
1405 - 1455 ( 50') @ .057  
720' @ .052 (W.A.G.)

R88-369 T.D. = 1320'  
260 - 350' ( 90') @ .098  
365 - 405 ( 40') @ .042  
420 - 435 ( 15') @ .025  
445 - 705 (260') @ .034  
790 - 820 ( 30') @ .070  
SCATTERED  $>$  .02  
1220 - 1290 ( 70') @ .022  
415' @ .035 (W.A.G.)

R88-370 T.D. = 1470'  
170 - 285 (115') @ .029  
300 - 320 ( 20') @ .079  
355 - 375 ( 20') @ .055  
405 - 415 ( 10') @ .026  
430 - 465 ( 35') @ .043  
490 - 520 ( 30') @ .052  
710 - 735 ( 25') @ .025  
760 - 810 ( 50') @ .043  
910 - 920 ( 10') @ .029  
930 - 965 ( 35') @ .041  
1155 - 1225 ( 70') @ .065  
420' @ .043 (W.A.G.)

# ASSAY RESULTS $\geq$ .02 OPT AU (3/3/88)

Page 2

R88-374      T.D. = 1300'

505 -	520'	( 15')	@	.055	
595 -	670'	( 75')	@	.044	
965 -	1035'	( 70')	@	.069	
1260 -	1275'	( 15')	@	.125	
		175'	@	.062	(W.A.G.)

R88-375      T.D. = 1415'

425 -	630'	(205')	@	.057	
645 -	675'	( 30')	@	.024	
865 -	880'	( 15')	@	.035	
1110 -	1125'	( 15')	@	.095	
		265'	@	.054	(W.A.G.)

# **BROHM MINING CORP.**

**DATE: MARCH 1, 1988**  
**TO: VENTURES TRIDENT - LAKEWOOD, COLORADO**  
**FOR: JAMES A. ANDERSON**  
**FROM: REX L. OUTZEN**  
**SUBJECT: GILT EDGE PROJECT-MONTHLY FLASH REPORT-FEBRUARY, 1988**

- \* Continued limited earthwork activities in the crusher area
- \* Continued geologic data compilation, cross section preparation and reserve estimation
- \* Continued sulphide project development drilling program
- \* Continued detail project engineering and design
- \* Continued procurement activities for high priority items
- \* Received approval of County Conditional Use Permit Amendment
- \* Attended meetings with State DWNR to review permit amendment and plans and specifications in preparation for March hearing
- \* Continued land acquisition activities
- \* Finalized several small lease purchase agreements and will finalize lease with Borsch/Fahrni for 430 acres early in March
- \* Continued negotiations with Homestake
- \* Presented geologic data and reserve information and potential to MFC, Alfred Bunting and Co. and First Marathon Security Limited
- \* Attended Wharf Resources Mining and Milling Permit Amendment hearings
- \* Continued preparation for State Mining and Milling Permit Amendment presentation
- \* Continued sulphide project development with encouraging metallurgical test results
- \* Attended meetings with USFS concerning sulphide project development

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- \* Provided assistance to Minproc USA in preparing Gilt Edge Project report
- \* Nick Meinhardt and the Citizen's Law Center obtained the required signatures and filed the anti mining petitions with the Secretary of State
- \* South Dakota Mining Association has retained attorneys to try and invalidate the petitions

  
\_\_\_\_\_  
Rex E. Outzen

RLO/dvl

# BROHM MINING CORP.

DATE: FEBRUARY 4, 1988  
TO: VENTURES TRIDENT - LAKEWOOD, COLORADO  
FOR: JAMES A. ANDERSON  
FROM: REX L. OUTZEN  
SUBJECT: MONTHLY REPORT - GILT EDGE PROJECT - JANUARY, 1988

## SUMMARY

During the month of January, progress continued on the Gilt Edge Project. Permit amendments were completed and submitted to both the county and the state. Detailed plans and specifications were submitted to the state for approval. Earthwork activities in the crusher area continued, as well as detail design engineering and equipment procurement was initiated. Sulphide project development continued including commencement of the sulphide project development drilling program. Property acquisition progressed well and negotiations were initiated with Homestake.

## PROJECT ENGINEERING AND DESIGN

Bateman Engineering continued detail design engineering and are pretty much complete until vendor equipment drawings are obtained.

A package including all detail plans and specifications was completed and submitted to the state for approval.

Procurement activities were initiated in January. Bid packages were prepared, sent out and bids are being received and evaluated. Equipment orders will be placed early in February.

## CONSTRUCTION

Only a limited amount of earthwork was completed in January. D.H. Blattner and Sons initiated excavation in the crusher cut area and continued building the leach pad haul road. This work will continue in February.

## STAFFING

There were no changes in personnel during the month.

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## PROPERTY STATUS

Progress continued in the acquisition of additional property for the Gilt Edge Project. Numerous agreements were finalized in January including the following.

- \* Ruth Hankins - 752 acres
- \* Phil Wolff - Rochford property to be swapped to the USFS
- \* Charles Fillmore - Yellow Jacket No. 2 claim
- \* Leone Mitchell - Fern claim
- \* David Walberg - Twin Mine, Blue Bird claims
- \* Richard Repke - Ruby Placer claim
- \* Cecil Engels - Hagensick Fraction
- \* State of South Dakota - 224 acres in Section 36

Negotiations continue with Borsch Fahrni, Deadbroke Mining, Olson, Whiteaker, Baggaley, and Aye. In addition, negotiations were initiated with Homestake late in January. The initial meeting went well as Homestake was receptive to our proposal regarding Lost Gulch.

## GEOLOGY

Preparation of the 50 foot spaced detailed east-west cross sections were pretty well completed in January. Minor changes and modifications will continue.

Manual ore reserve calculations were initiated this month. This work resulted in identifying significant ore reserve potential north of the main deposit area.

A detailed sulphide project development drilling plan was completed. Drilling contractor bids were received and evaluated and drilling bids were awarded to Lang and Tonto. The Lang rig arrived late in January and commenced drilling of the initial drill hole. Assays for the first portion of the hole were received early in February and showed that from 0 to 600 feet averaged .051 opt Au. A drill hole plan map and individual 5 foot assays are attached for your review.

## ADMINISTRATION

Final arrangements were made for making all disbursements out of the local Deadwood office this month. Local disbursements will begin in February.

Policies covering disbursement of funds, AFE's, approval levels, and disposal of assets were prepared in coordination with George Ireland. Copies of these have been provided to you for review and comment.

Preparation of position descriptions was initiated this month. Once complete, salary and wage surveys will be conducted in order to prepare proposed wage rates.

The employee handbook was completed. A copy has been forwarded to the Mountain States Employers Council for review and comments.

Pre-employment personnel forms were prepared this month. Also, tentative arrangements have been made with a local physician to handle pre-employment physicals. A safety handbook is also being prepared.

The year end reporting of payroll and disbursement information to the federal government (W-2, 1099, forms 940, 941, etc.) were completed and mailed in January along with the required South Dakota Unemployment Tax information.

#### ENVIRONMENTAL/PERMITTING

The Conditional Use Permit amendment application was submitted to Lawrence County on January 13. A presentation was made to the Planning and Zoning Commission in the morning and then jointly with the Planning and Zoning Commission and the Lawrence County Commissioners in the afternoon. The application was well received and a public hearing has been scheduled for February 10.

The State Mining and Milling Permit amendment application was completed and submitted to the Department of Water and Natural Resources on January 14. The DWNR has scheduled us for a hearing before the State Board of Minerals and Environment on March 17, 1988.

Environmental monitoring work continued. Also, reclamation test plots are presently being designed to evaluate new and presently permitted species and future revegetation practices and success.

#### SULPHIDE PROJECT

Sulphide project development work continued in January. The first draft of Chapter I of the proposed Mining and Milling Permit was prepared. Some blank areas will be completed after the ongoing detailed field work and water quality sampling is complete.

The three remaining ground water monitoring wells were completed. All wells are now complete and are being sampled and monitored on a monthly basis.

Metallurgical testing continued. Good concentrate leaching results are being obtained by caustic pretreatment or the arseno process of the flotation concentrates. Testing of the core samples is now in progress and should be completed by the end of February. At that time economics will be available. Comparison of the various alternatives will then be made and the final process flowsheet determined.

Waste rock characterization and fate and pathway analysis work continued. Tailings characterization work will not be completed until the final flowsheet is determined.

As mentioned earlier, the sulphide project development drilling program was initiated late in January and everyone is very excited about the development potential.

#### GENERAL

Gilt Edge Project geological data was presented to David Robertson, Minproc, U.S.A. and again to Total Minerals. David Robertson was very pleased to see the amount of data that is available, the way in which it has been compiled and is quite optimistic about the potential.

Nick Meinhardt and the Citizens Law Center are having a difficult time obtaining signatures for the two anti mining initiatives.

#### FEBRUARY ACTIVITIES

During the month of February, work will be performed on the following list of activities.

- Continue detail design engineering.
- Continue bid document preparation, bid evaluation and equipment procurement.
- Attend county CUP amendment hearing and obtain county CUP amendment approval.
- Meet with DWNR officials and agree on state permit amendment criteria.
- Prepare for State Board of Minerals and Environment Mining and Milling Permit hearing.
- Obtain DWNR approval of detail design plans and specifications.
- Continue updating geologic maps and cross sections.

- Continue manual ore reserve estimation.
- Continue property surveying, title work and claim staking.
- Continue land negotiations and property acquisition.
- Continue environmental monitoring.
- Continue development of company policies and procedures.
- Initiate investigation of the use of polygraph as a security and employment tool.
- Continue block model construction and optimize pit design.
- Develop and prepare detailed ore waste schedules.
- Renegotiate mine contract due to increased ore/waste volumes.
- Continue sulphide project development including drilling, environmental work, metallurgical testing, feasibility studies and permitting.

Attached please find the monthly manpower summary report.

  
Rex L. Outzen

RLO/dvl

Attachments

cc: J. Barron  
D. Blakeman  
D. Langford  
M. Neumann  
P. Goodwin  
C. Seward  
D. Stewart  
J. Wilbanks

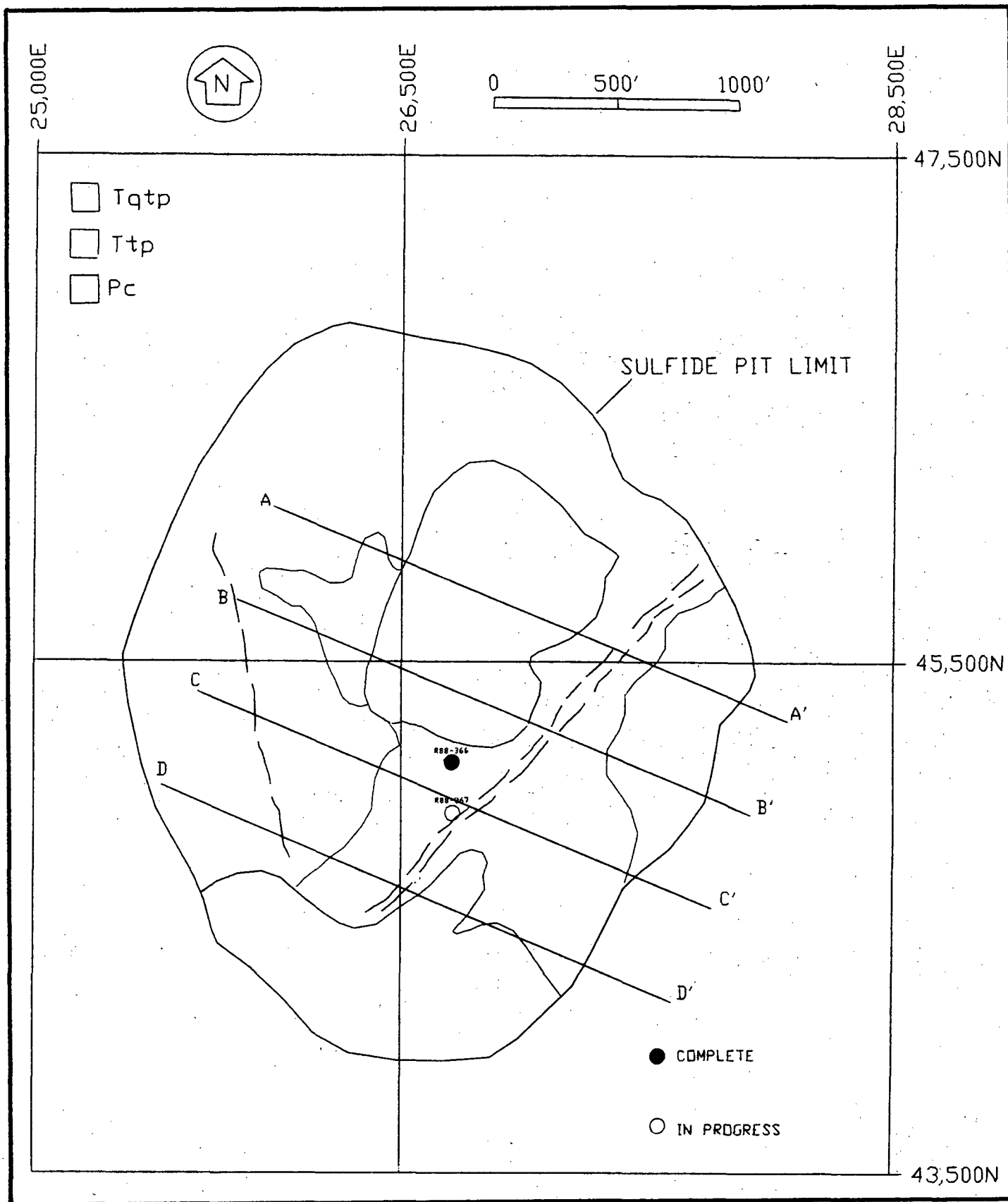
GILT EDGE PROJECT  
MANPOWER SUMMARY  
JANUARY, 1988

<u>DEPARTMENT</u>	<u>SALARIED</u>	<u>HOURLY</u>	<u>TOTAL</u>
ENGINEERING/GEOLOGY	5	0	5
PROCESSING	1	0	1
MAINTENANCE	0	0	0
LABORATORY	0	0	0
ADMINISTRATION	9	0	9
TOTAL	<u>15</u>	<u>0</u>	<u>15</u>

<u>MONTH</u>	<u>HIRED</u>	<u>TERMINATED</u>	<u>NET CHANGE</u>
	0	0	0

PRESENT PERSONNEL

<u>NAME</u>	<u>POSITION</u>	<u>DEPARTMENT</u>
REX OUTZEN	GENERAL MANAGER	ADMINISTRATION
DOUG STEWART	MINE SUPT.	ENG/GEOLOGY
DAN BLAKEMAN	PROCESS SUPT.	PROCESSING
DICK LANGFORD	ADMINISTRATIVE MANAGER	ADMINISTRATION
MIKE NEUMANN	MANAGER LAND/LEGAL	ADMINISTRATION
JOHN WILBANKS	ENVIRONMENTAL AFFAIRS DIR.	ADMINISTRATION
PETE GOODWIN	PERSONNEL/GOV AFFAIRS DIR.	ADMINISTRATION
JIM BARRON	SR. EXPLORATION GEOLOGIST	ENG/GEOLOGY
CARL SEWARD	SENIOR PROJECT ENGINEER	ENG/GEOLOGY
TIM FOX	MINE ENGINEER	ENG/GEOLOGY
ROD MACLEOD	MINE GEOLOGIST	ENG/GEOLOGY
LANCE HUBBARD	SAFETY/SECURITY SUPV.	ADMINISTRATION
SCOTT WANSTEDT	SAFETY/ENVIRON ASST.	ADMINISTRATION
DEBBIE VANDERLAAN	SECRETARY/RECEPTIONIST	ADMINISTRATION
MARY WINCHESTER	ACCOUNTING CLERK	ADMINISTRATION



CURRENT STATUS - SULFIDE INFILL DRILL HOLES  
GILT EDGE, SOUTH DAKOTA  
FEBRUARY 5, 1988

STRAWBERRY HILL MINING CO. ASSAY DIV., DEADWOOD, SD

R88-366 DATE: 01-29-88 AU OPT AU OPT ASSAYER: BARB

R88-366	0	5	0.000
R88-366	5	10	0.005
R88-366	10	15	0.000
R88-366	15	20	0.000
R88-366	20	25	0.000
R88-366	25	30	0.005
R88-366	30	35	0.005
R88-366	35	40	0.000
R88-366	40	45	-0.035
R88-366	45	50	-0.095
R88-366	50	55	-0.070
R88-366	55	60	-0.050
R88-366	60	65	-0.045
R88-366	65	70	-0.095
R88-366	70	75	-0.140
R88-366	75	80	-0.140
R88-366	80	85	-0.065
R88-366	85	90	-0.080
R88-366	90	95	-0.055
R88-366	95	100	-0.060
R88-366	100	105	-0.085
R88-366	105	110	-0.055
R88-366	110	115	-0.115
R88-366	115	120	-0.095
R88-366	120	125	-0.105
R88-366	125	130	-0.010
R88-366	130	135	-0.050
R88-366	135	140	-0.045
R88-366	140	145	-0.070
R88-366	145	150	-0.030
R88-366	150	155	-0.035
R88-366	155	160	-0.120
R88-366	160	165	-0.050
R88-366	165	170	-0.050
R88-366	170	175	-0.035
R88-366	175	180	-0.025
R88-366	180	185	-0.030
R88-366	185	190	-0.035
R88-366	190	195	-0.025
R88-366	195	200	-0.020
R88-366	200	205	-0.020
R88-366	205	210	0.010
R88-366	210	215	-0.035
R88-366	215	220	0.000
R88-366	220	225	-0.020
R88-366	225	230	0.015
R88-366	230	235	0.015
R88-366	235	240	0.000
R88-366	240	245	-0.060
R88-366	245	250	-0.060
R88-366	250	255	-0.090
R88-366	255	260	-0.060

40-600' (560') @ 0.052 OPT Au

620-630 10' @ 0.060 OPT Au

750-755 (5') @ 0.040 OPT Au

STRAWBERRY HILL MINING CO. ASSAY DIV., DEADWOOD, SD

R88-366	DATE: 01-29-88	AU OPT	AU OPT	ASSAYER: BARB
R88-366	260	265	- 0.025	
R88-366	265	270	- 0.025	
R88-366	270	275	- 0.030	
R88-366	275	280	- 0.040	
R88-366	280	285	- 0.090	
R88-366	285	290	- 0.035	
R88-366	290	295	- 0.050	
R88-366	295	300	- 0.065	
R88-366	300	305	- 0.060	
R88-366	305	310	- 0.110	
R88-366	310	315	- 0.070	
R88-366	315	320	- 0.065	
R88-366	320	325	- 0.070	
R88-366	325	330	- 0.065	
R88-366	330	335	- 0.050	
R88-366	335	340	- 0.050	
R88-366	340	345	- 0.045	
R88-366	345	350	0.000	
R88-366	350	355	- 0.040	
R88-366	355	360	- 0.040	
R88-366	360	365	- 0.065	
R88-366	365	370	0.000	
R88-366	370	375	0.000	
R88-366	375	380	- 0.060	
R88-366	380	385	- 0.075	
R88-366	385	390	- 0.045	
R88-366	390	395	- 0.055	
R88-366	395	400	- 0.030	
R88-366	400	405	0.005	0.010
R88-366	405	410	0.010	0.015
R88-366	410	415	- 0.025	0.030
R88-366	415	420	- 0.070	0.070
R88-366	420	425	- 0.060	0.070
R88-366	425	430	- 0.065	0.065
R88-366	430	435	- 0.120	0.210
R88-366	435	440	- 0.020	0.025
R88-366	440	445	- 0.025	0.065
R88-366	445	450	- 0.025	
R88-366	450	455	- 0.070	
R88-366	455	460	- 0.130	
R88-366	460	465	- 0.030	
R88-366	465	470	- 0.100	
R88-366	470	475	- 0.120	
R88-366	475	480	- 0.035	
R88-366	480	485	0.085	
R88-366	485	490	0.015	
R88-366	490	495	0.005	
R88-366	495	500	0.005	
R88-366	500	505	0.050	
R88-366	505	510	- 0.040	
R88-366	510	515	- 0.060	
R88-366	515	520	0.005	

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0.010		first column
0.015		is coned
0.030		
0.070		
0.070		
0.065		second is
0.210		split
0.025		
0.065		

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STRAWBERRY HILL MINING CO. ASSAY DIV., DEADWOOD, SD

R88-366	DATE: 01-29-88	AU OPT	AU OPT	ASSAYER: BARB
R88-366	520	525	- 0.025	
R88-366	525	530	- 0.090	
R88-366	530	535	- 0.190	
R88-366	535	540	- 0.070	
R88-366	540	545	- 0.080	
R88-366	545	550	- 0.075	
R88-366	550	555	- 0.050	
R88-366	555	560	- 0.060	
R88-366	560	565	0.000	
R88-366	565	570	0.000	
R88-366	570	575	- 0.035	
R88-366	575	580	0.000	
R88-366	580	585	- 0.030	
R88-366	585	590	- 0.120	
R88-366	590	595	- 0.080	
R88-366	595	600	- 0.040	

# BROHM MINING CORP.

DATE: FEBRUARY 2, 1988  
TO: VENTURES TRIDENT - LAKEWOOD, COLORADO  
FOR: JAMES A. ANDERSON  
FROM: REX L. OUTZEN  
SUBJECT: GILT EDGE PROJECT - MONTHLY FLASH REPORT

- \* Continued limited earthwork activities in the crusher area.
- \* Continued geologic data compilation, cross section preparation and manual reserve estimation.
- \* Prepared sulphide project development drilling program.
- \* Initiated sulphide project development drilling.
- \* Continued detail project engineering and design.
- \* Initiated procurement activities.
- \* Completed preparation of County CUP Amendment package and submitted to County for approval.
- \* Completed preparation of State Mining and Milling Permit Amendment package and submitted it to the State DWNR for approval.
- \* Prepared and submitted detail operational plans, specifications and drawings to State DWNR for approval.
- \* Continued sulphide project development with work progressing in areas of water quality well drilling, environmental, metallurgical testing and plant design.
- \* Continued land acquisition activities.
- \* Finalized lease with Ruth Hankins for 752 acres.
- \* Finalized numerous other small lease purchase agreements.
- \* Initiated property negotiations with Homestake.
- \* Met with state officials Jim Hill and Lt. Governor Walter Dale Miller.
- \* Met with State DWNR and was scheduled for March 17, 1988 permit amendment hearing date.

South Dakota Office: P.O. Box 485, Deadwood, South Dakota 57732  
Telephone: (605) 578-2107 Telecopier: (605) 578-1709

Head Office: #1660-999 West Hastings Street, Vancouver, B.C. V6C 2W2  
Telephone: (604) 662-8383 Telex: 04-51472 P V C V C R Telecopier: (604) 684-1329

- \* Presented Gilt Edge Project geologic data and reserve information and potential to David Robertson, to members of Minproc, USA and again, to Total Minerals.
- \* Attended St. Joe Gold Mining and Milling Permit hearings.
- \* Continued development of company internal controls, personnel forms, employee handbooks and policies and procedures.
- \* Received information that Nick Minehardt is having a difficult time obtaining signatures on initiatives.
- \* Started preparation for State Mining and Milling Permit Amendment presentation.

  
\_\_\_\_\_  
Rex L. Outzen

RLO/dvl

# BROHM MINING CORP.

DATE: JANUARY 14, 1988  
TO: VENTURES TRIDENT - LAKEWOOD, COLORADO  
FROM: REX L. OUTZEN  
SUBJECT: MONTHLY REPORT - GILT EDGE PROJECT - DECEMBER, 1987

## SUMMARY

During the month of December, fall earthwork activities were completed. Progress continued in the areas of detail design engineering, geologic data compilation, property acquisition, preparation of permit amendment documents and sulphide project development.

## PROJECT ENGINEERING AND DESIGN

Bateman Engineering continued detail design engineering activities. Detail engineering was pretty much complete by the end of December with the exception of some details in piping, concrete and electrical design. In January, Bateman will prepare the packages containing the detail plans and specifications which will be submitted to the State DWR for approval prior to construction. In addition, Bateman is in the process of procurement and preparation of all equipment and subcontractor bid documents. Procurement will be initiated in January in order to meet equipment delivery requirements and commence operations in July.

## CONSTRUCTION

Fall earthwork activities were completed in December. The plant site and leach pad were brought up to final grade. D.H. Blattner and Sons reduced their manpower level to just key supervisory personnel and will continue minor earthwork activity during the months of January and February as weather permits.

## STAFFING

There were no changes in personnel during the month.

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Telephone: (604) 662-8383 Telex: 04-51472 P V C VCR Telecopier: (604) 684-1329

## PROPERTY STATUS

Progress continued in the acquisition of additional property for the Gilt Edge Mine. Agreements were finalized with Willis Aye for approximately 640 acres, with Rosypal for the Red Jacket claim and with Repke for the Ruby Placer. Negotiations are proceeding very well with Ruth Hankins, Olson, and Borsch Fahrni and should be completed early in January.

In addition to the land negotiations, property document preparation was initiated in order to have everything ready such as claim lists, affected land ownership, etc. for the state and county permit amendments which will be submitted in January.

## GEOLOGY

Preparation of the 50 foot spaced east-west cross sections continued in December. Most all sections have been completed with the exception of finalizing geology, contouring assays and making minor changes and modifications.

In addition to cross section preparation, a considerable amount of time was spent in the preparation of the upcoming sulphide project development drilling program. Meetings were held with Minproc in order to assign responsibilities. Drilling contractor bid packages were prepared and sent out and other miscellaneous logistics were discussed. The actual drilling program is now being designed with the assistance of Dick Nielsen. Once the drill program is finalized, an AFE will be prepared and submitted for approval.

The last of four diamond core holes for metallurgical samples was completed in December. The core has been logged, split and shipped to the laboratory for testing.

## ADMINISTRATION

Meetings were held with George Ireland, Barney Magnusson and Ralf Langner this month in order to discuss financial reporting formats. All agreed on the final reports and the report formats are now being generated.

Measures were initiated this month to begin payment of general disbursements locally out of the Deadwood office. Several other items are being addressed and payment from the Deadwood office should begin early in February.

Work continues on the preparation of policies and procedures and the preparation of the employee handbook. The final draft of the employee handbook should be ready in January.

Pete Goodwin continues to introduce Brohm to numerous people involved in the South Dakota governmental and regulatory agencies. Mr. Goodwin has been very successful in promoting Brohm's image and has initiated the building of numerous long term rewarding relationships.

## ENVIRONMENTAL/PERMITTING

Again in December, major emphasis was placed on the preparation of the state and county permit amendment packages. Groups and individuals responsible for various segments of the permit amendment completed their documents during the week of December 21. After Christmas, the various documents were reviewed, amended where necessary and assembly of the final amendment package was initiated. Assembling the package will be completed the first week of January and will be submitted to the state and county the following week. The CUP amendment will be submitted to the Lawrence County Planning and Zoning Commission and to the County Commissioners on January 13th. The county public hearing is scheduled for February 10th. The state amendment will be submitted to the DWR on January 14th and it is our understanding that the hearing before the Board of Minerals and Environment will be held March 17th.

Other permit issues that were completed in December were the approval of abandonment of section lines within the permit area and the approval of the plant site building permits by Lawrence County.

## SULPHIDE PROJECT

Sulphide project development work continued in December. Fall environmental baseline studies were completed and EnecoTech is presently preparing Chapter I of the Mining and Milling Permit which addresses the existing environment.

Water quality monitoring well drilling was suspended late in December. Only 3 additional wells remain to be drilled. These three wells will be drilled early in January.

Metallurgical testwork continued in December. Preliminary results show that by direct cyanidation, gold recoveries approached 75%. Using bulk sulphide flotation, gold recoveries approached 90%. Gravity concentration testwork resulted in gold recoveries approaching 60%. All tests are preliminary at this time and additional testwork including mineralogical work aimed at improving recovery is presently being conducted.

Core drilling was completed in December and core samples will be shipped to McClelland Laboratories for additional metallurgical testwork.

Waste rock characterization and EP toxicity tests are in progress to determine acid generation data in order to provide information for sound environmental design.

Plant and tailings dam siting studies were completed with the preferred plant site being north of the existing mine area and the preferred tails dam location being Lost Gulch.

Overall, the sulphide project development work is proceeding fairly well. However, Minproc and EnecoTech have been negligent in preparing timely reports and cost information. In addition, present forecast cost figures significantly exceed the original proposed costs. Some of the additional cost is justifiable, however, it appears that Minproc and EnecoTech significantly under estimated the project costs in the original proposal. A meeting will be held with Minproc early in January to discuss this problem.

#### GENERAL

Gilt Edge Project data presentation was provided to three employees of Total Minerals in December.

Nick Meinhardt filed two anti mining initiatives in December. One initiative proposes a 4% gross tax while the other proposes that reclamation back to original topography be required.

#### JANUARY ACTIVITIES

During the month of January work will be performed on the following list of activities.

- Continue detail project design engineering.
- Continue bid document preparation and commence project procurement.
- Finalize preparation of all project plans and specifications and submit to DWNR for approval.
- Complete preparation of State Mining and Milling Permit Amendment application and submit to the DWNR for approval.
- Complete preparation of the County Conditional Use Permit Amendment package and submit to Lawrence County for approval.
- Initiate preparation for permit amendment presentation to both the Lawrence County Commissioners and the State Board of Minerals and Environment.
- Complete geologic maps and cross section preparation.
- Prepare manual ore reserve estimate.
- Prepare sulphide project development drilling program and AFE.
- Continue property surveying and claim staking.

- Continue land negotiations and property acquisition. Finalize all negotiations necessary for the oxide project development.
- Continue environmental monitoring.
- Continue close working relationships with governmental agencies in order to timely proceed with project permitting.
- Finalize engineering contracts.
- Initiate block model construction and optimize pit design.
- Develop and prepare detailed ore and waste schedules.
- Renegotiate mine contract due to increase ore/waste volumes.
- Continue sulphide project development including environmental work, development drilling, metallurgical testing, feasibility studies and permitting.

Attached please find the monthly manpower summary report.

  
\_\_\_\_\_  
Rex L. Outzen

RLO/dvl

cc: J. Barron  
D. Blakeman  
D. Langford  
M. Neumann  
P. Goodwin  
C. Seward  
D. Stewart  
J. Wilbanks



GILT EDGE PROJECT  
MANPOWER SUMMARY  
DECEMBER, 1987

<u>DEPARTMENT</u>	<u>SALARIED</u>	<u>HOURLY</u>	<u>TOTAL</u>
ENGINEERING/GEOLOGY	5	0	5
PROCESSING	1	0	1
MAINTENANCE	0	0	0
LABORATORY	0	0	0
ADMINISTRATION	9	0	9
TOTAL	<u>15</u>	<u>0</u>	<u>15</u>

<u>MONTH</u>	<u>HIRED</u>	<u>TERMINATED</u>	<u>NET CHANGE</u>
	0	0	0

PRESENT PERSONNEL

<u>NAME</u>	<u>POSITION</u>	<u>DEPARTMENT</u>
REX OUTZEN	GENERAL MANAGER	ADMINISTRATION
DOUG STEWART	MINE SUPT.	ENG/GEOLOGY
DAN BLAKEMAN	PROCESS SUPT.	PROCESSING
DICK LANGFORD	ADMINISTRATIVE MANAGER	ADMINISTRATION
MIKE NEUMANN	MANAGER LAND/LEGAL	ADMINISTRATION
JOHN WILBANKS	ENVIRONMENTAL AFFAIRS DIR.	ADMINISTRATION
PETE GOODWIN	PERSONNEL/GOV AFFAIRS DIR.	ADMINISTRATION
JIM BARRON	SR. EXPLORATION GEOLOGIST	ENG/GEOLOGY
CARL SEWARD	SENIOR PROJECT ENGINEER	ENG/GEOLOGY
TIM FOX	MINE ENGINEER	ENG/GEOLOGY
ROD MACLEOD	MINE GEOLOGIST	ENG/GEOLOGY
LANCE HUBBARD	SAFETY/SECURITY SUPV.	ADMINISTRATION
SCOTT WANSTEDT	SAFETY/ENVIRON ASST.	ADMINISTRATION
DEBBIE VANDERLAAN	SECRETARY/RECEPTIONIST	ADMINISTRATION
MARY WINCHESTER	ACCOUNTING CLERK	ADMINISTRATION

BROHM MINING CORPORATION  
PRODUCTION SHIPMENT REPORT

DATE - 12/28/88

<u>DESCRIPTION</u>	<u>DORE WT OZ</u>	<u>AU ASSAY</u>	<u>AG ASSAY</u>	<u>AU OUNCES</u>	<u>AG OUNCES</u>
<u>012-001</u>	<u>485.5</u>	<u>0.3257</u>	<u>0.4756</u>	<u>158.13</u>	<u>230.90</u>
<u>012-002</u>	<u>273.1</u>	<u>0.3312</u>	<u>0.4656</u>	<u>90.45</u>	<u>127.16</u>
<u>012-003</u>	<u>293.3</u>	<u>0.3907</u>	<u>0.3622</u>	<u>114.59</u>	<u>106.23</u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
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<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u>TOTALS</u>	<u>1051.9</u>	<u> </u>	<u> </u>	<u>363.17</u>	<u>464.29</u>

cc: Tom Campbell  
Dan Blakeman  
Rex Outzen  
Dick LANGFORD